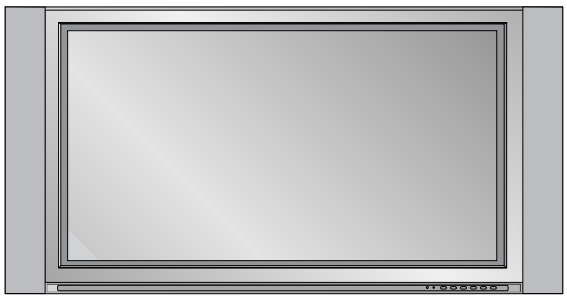
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

PLASMA TV
SERVICE MANUAL

CHASSIS : RF-043B

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SCHEMATIC DIAGRAM .....

PRINTED CIRCUIT BOARD .....

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

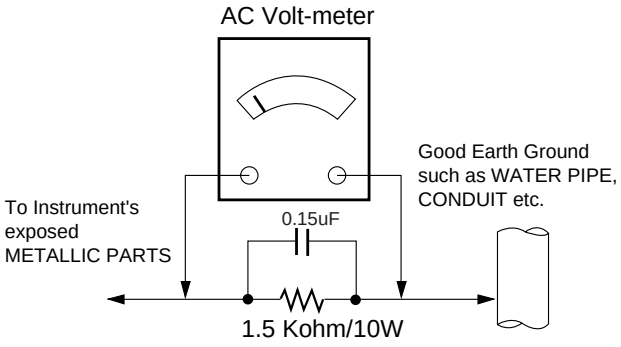
Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

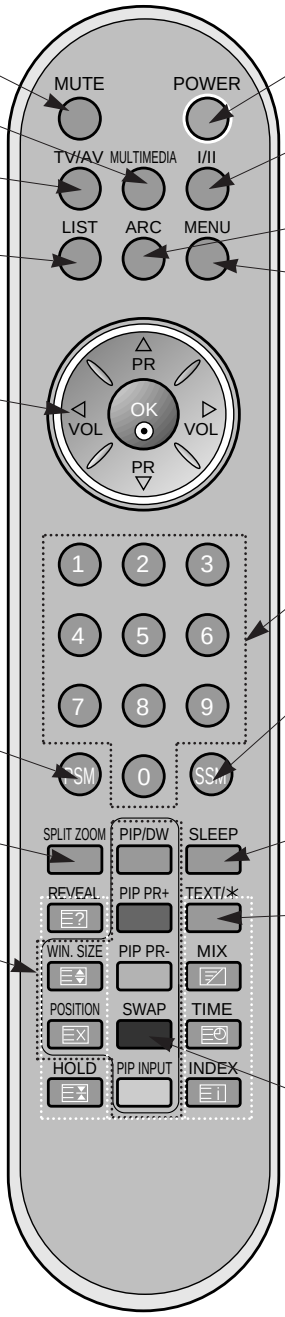
Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



DESCRIPTION OF CONTROLS

- When using the remote control aim it at the remote control sensor of the set.
- There's maybe a defect in consecutive operation of remote control in specified brightness according to this set feature.



MUTE
Switches the sound on or off.

MULTIMEDIA
Selects the Component, RGB or DVI modes.

TV/AV
Selects the TV, AV, Component, RGB or DVI modes.

LIST
Displays the program table.

▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set on from standby.
◄ / ► (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.

PSM
Adjusts the factory preset picture according to the room.

SPLIT ZOOM
Enlarge the screen with regular ration.

PIP/DW
Switches the sub picture on or off.
Selects PIP or DW modes.
PIP PR + /-
Selects a programme for the sub picture.
SWAP
Alternates between main and sub picture.
PIP INPUT
Selects the input mode for the sub picture.
WIN.SIZE
Adjusts the sub picture size.
POSITION
Moves the sub picture to ▲ / ▼ or ◄ / ► direction.

POWER
switches the set on from standby or off to standby.

I/II
Selects the language during dual language broadcast.
Selects the sound output.

ARC
Changes the picture format.

MENU
Displays on screen menus one by one.
Exits the current menu.
Memorizes menu changes.

NUMBER buttons

SSM
To select the sound appropriate to your viewing programme character.

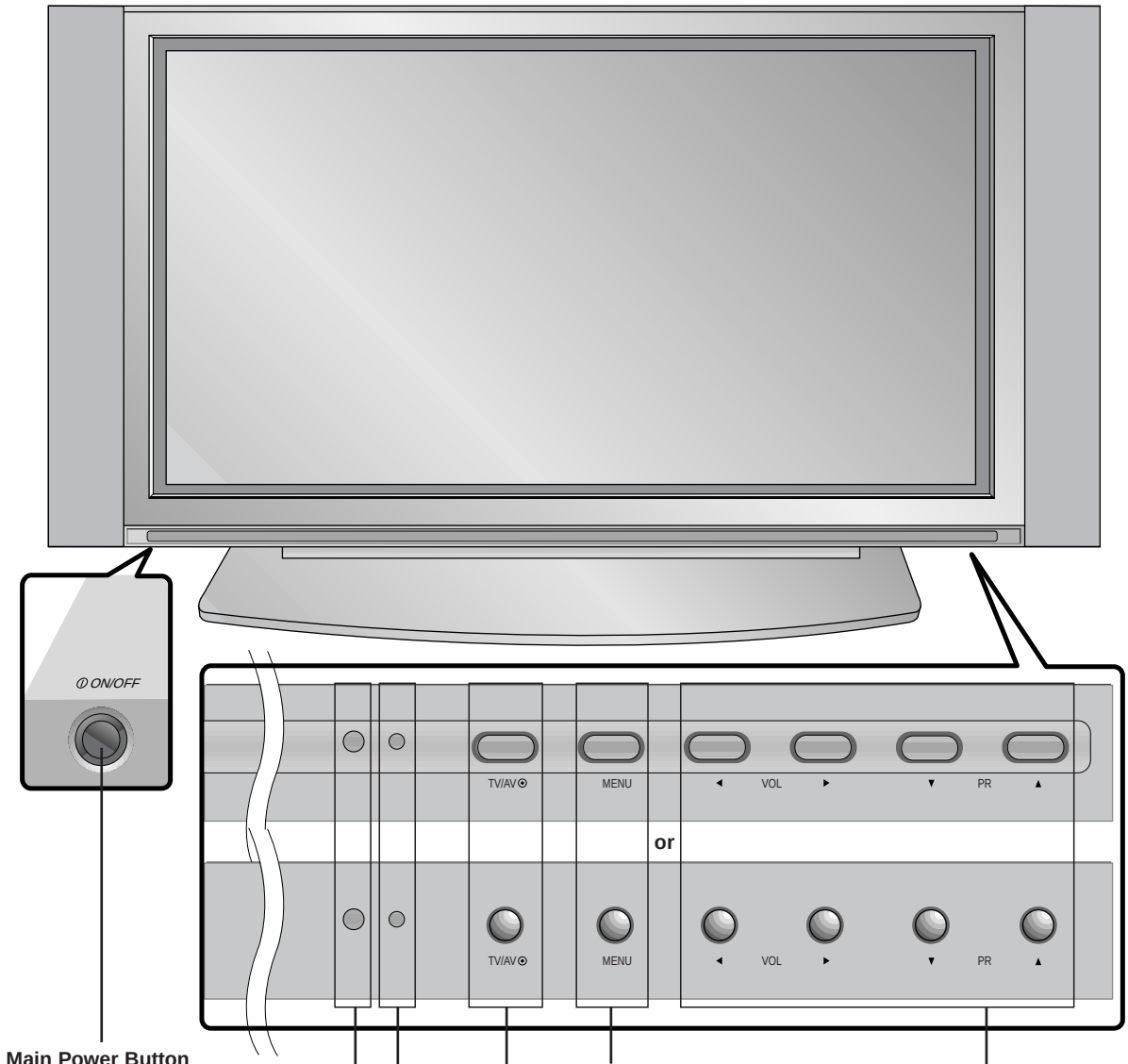
SLEEP
Sets the sleep timer.

TEXT
These buttons are used for teletext. For further details, see the 'Teletext' section.
Note : *In teletext mode, the* ***PIP PR +/-****,* ***SWAP*** *and* ***PIP INPUT*** *buttons are used for teletext function.*

SWAP
Returns to the previously viewed programme.
Note : *This function works only when Favorite programme is set to Off. Otherwise each press of this button will select a stored favorite programme.*

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.

<Front Panel Controls>



Main Power Button

Remote Control Sensor

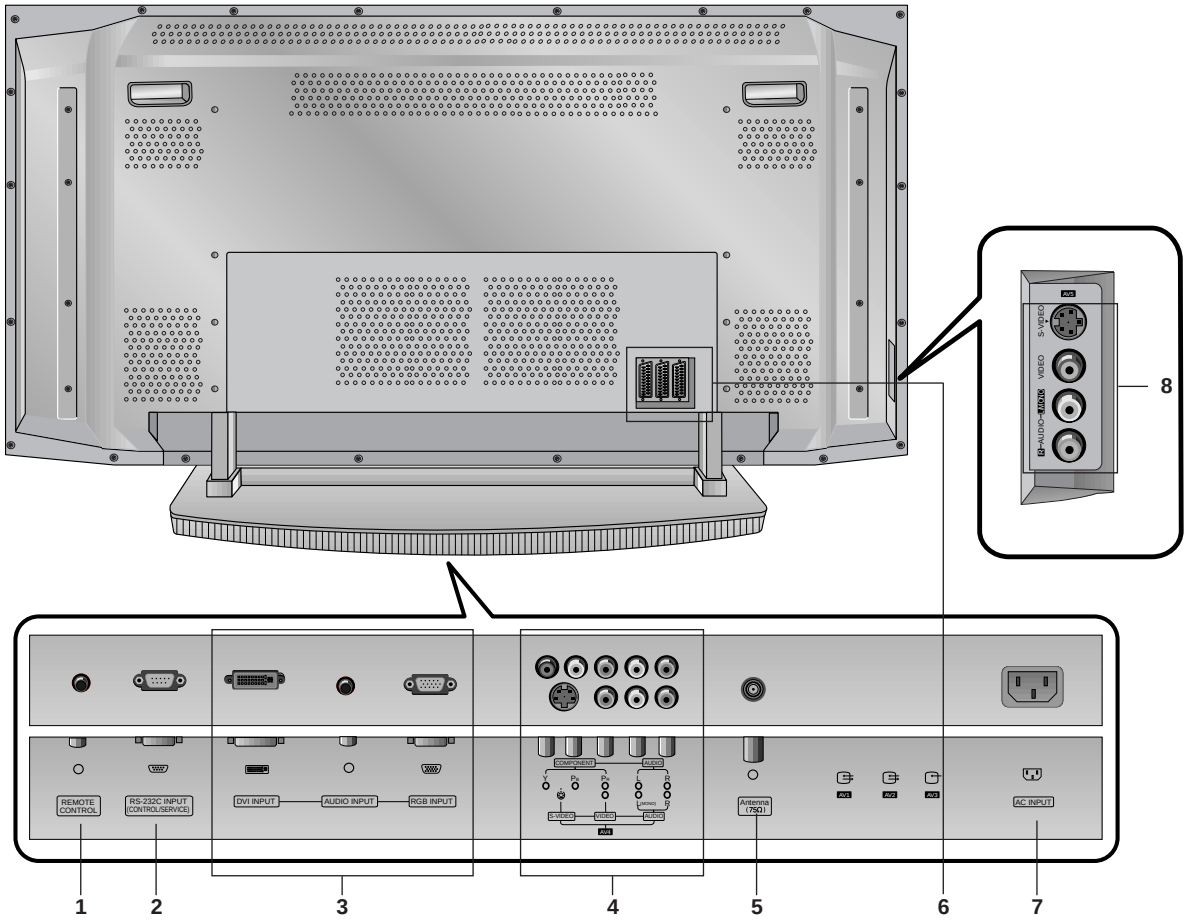
MENU
Displays on screen menus one by one.
Exits the current menu.
Memorizes menu changes.

TV/AV Button
Selects the TV, AV, Component, RGB or DVI modes. If OSD is displayed, selects menu item.

Power Standby Indicator
Illuminates red in standby mode, Illuminates green when the set is turned on

▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set on from standby.
◄ / ► (Volume Up/Down)
adjusts the volume.
adjusts menu settings.

<Back Panel>



1. REMOTE CONTROL

2. RS-232C INPUT(CONTROL/SERVICE) PORT
Connect to the RS-232C port on a PC.

3. DVI INPUT / AUDIO INPUT / RGB INPUT
Connect the monitor output socket of the PERSONAL COMPUTER to this socket.

4. COMPONENT INPUT
Connect DVD video outputs to Y, P_B, P_R of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

AUDIO/VIDEO IN SOCKETS (AV4)
Connect the audio/video out sockets of external equipment to these sockets.
S-VIDEO/AUDIO IN SOCKETS
Connect the S-VIDEO out socket of an VCR to the **S-VIDEO** socket.
Connect the audio out sockets of the VCR to the audio sockets as in **AV4**.

5. ANTENNA INPUT

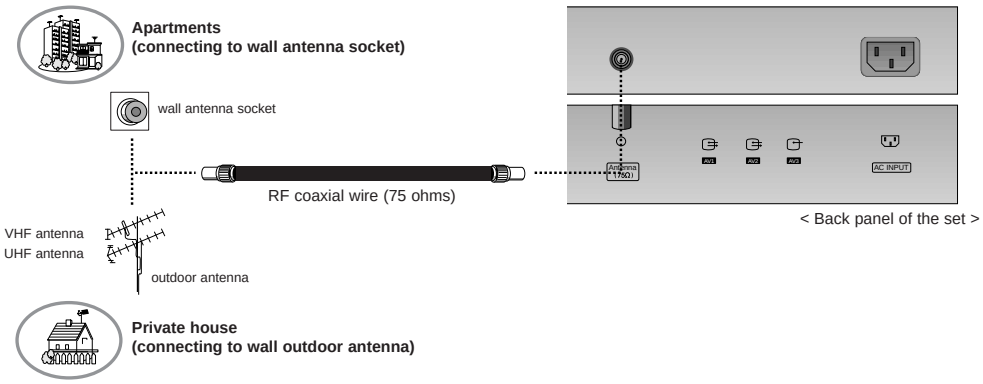
6. EURO SCART SOCKET
Connect the euro scart socket of the VCR to these sockets.

7. POWER CORD SOCKET
This Monitor operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the Monitor on DC power.

8. AUDIO/VIDEO IN SOCKETS (AV5)
S-VIDEO/AUDIO IN SOCKETS

Antenna Connection

- Be careful for the bronze wire not to be bended in connecting to antenna input port.



Watching VCR

- When connecting the set to external equipment, match the colours of connecting ports (Video - yellow, Audio (L) - white, Audio (R) -red).
- Connect the VIDEO INPUT socket (yellow) to the VIDEO INPUT on the set.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/MONO) input on the set.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the set.
- Use the orbiter function to Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR. (Refer to p. 25)
  If a 4:3 picture format is used; the fixed image may remain visible on the screen.
- To avoid picture noise (interference), leave an adequate distance between the VCR and set.

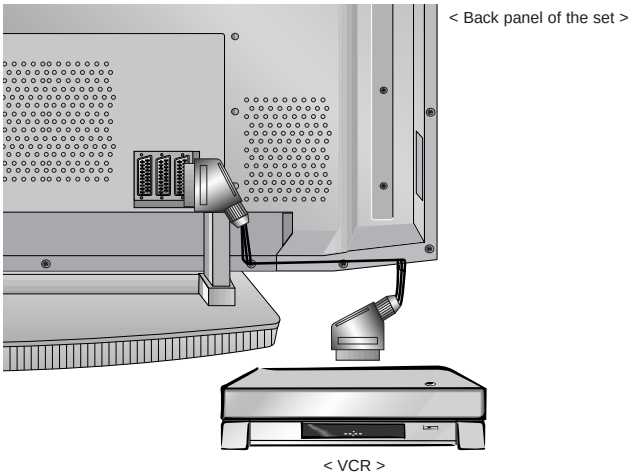
Watching TV programmes

- Turn the set on and select the programme you want.

Watching VCR

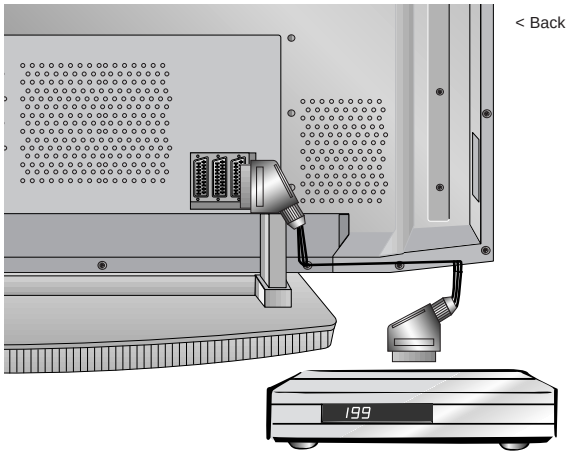
1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
- If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

2. Insert a video tape into the VCR and press the **PLAY** button on the VCR.
(See VCR owner's manual)



Watching Cable TV

- After subscribing for a local cable TV station and installing a converter you can watch cable TV.
- For further information of cable TV, contact the local cable TV station.



< Back panel of the set >

< Cable box >

To watch cable TV

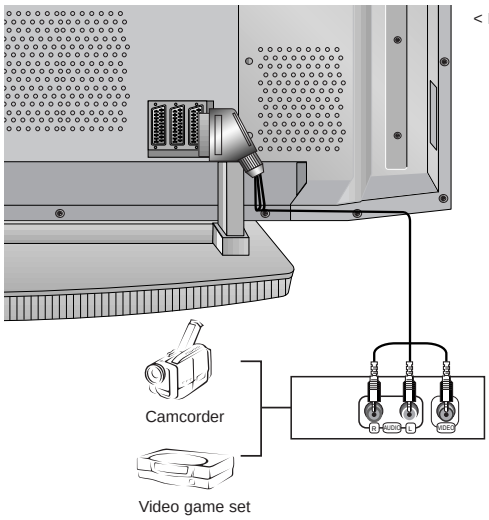
1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
2. Tune to cable service provided channels using the cable box.

Watching external AV source

- When connecting the set to an external source, match the colours of AUDIO/VIDEO input jacks on the set with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red.
  Or, connect the Euro scart socket of the VCR to the Euro scart socket of the set.

How to use

1. Use the **TV/AV** button on the remote control to select AV1, AV2, AV3, AV4 or AV5.
2. Operate the corresponding external equipment. See external equipment operating guide.



< Back panel of the set >

Watching DVD

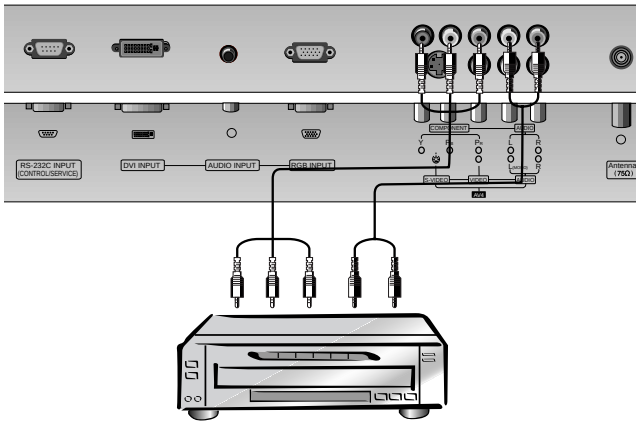
How to connect

Connect DVD video outputs to Y, P_B, P_R of COMPONENT INPUT and audio outputs to Audio sockets of AUDIO INPUT.

How to use

1. Turn on the DVD player, and insert a DVD.
2. Use **TV/AV** or **MULTIMEDIA** button on the remote control to select Component. Refer to the DVD player's manual for operating instructions.

< Back panel of the set >



< DVD player >

- **Component Input ports**
  You can get better picture quality if you connect DVD player with component input ports as below.

Component ports of the set	Y	P_B	P_R
Video output ports of DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P_B	P_R

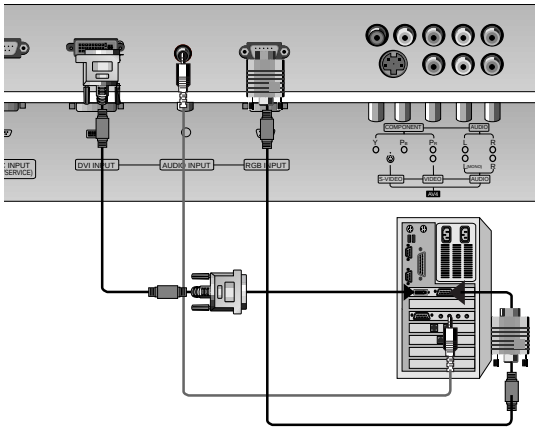
Connecting PC

- To enjoy vivid picture and sound, connect a PC to the set.
- Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect PC to the RGB INPUT(PC INPUT) or DVI INPUT(DIGITAL RGB INPUT) port of the set; change the resolution output of PC accordingly.
- There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

Setup Instructions to Connect a PC to your set

- We recommend using 640x480, 60Hz for the PC mode, they provide the best picture quality.
- If the resolution of PC is over UXGA, there will be no picture on the set.
- Connect the signal cable from the set output port of the PC to the RGB INPUT port of the set or the signal cable from the DVI output port of the PC to the DVI INPUT port on the set.
- Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- If using a sound card, adjust PC sound as required.
- This set apply a VESA Plug and Play Solution. The set provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically to use this set.
- DDC protocol is preset for RGB (Analog RGB), DVI (Digital RGB) mode.
- If required, adjust the set settings for Plug and Play functionally.
- If graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of both RGB INPUT or DVI INPUT to display the PC on the set.
  If graphic card on the PC does output analog and digital RGB simultaneously, set the set to either RGB or DVI; (the other mode is set to Plug and Play automatically by the set.)
- DOS mode may not work depending on video card if using a DVI-I cable.

< Back panel of the set >

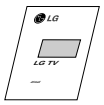


PC Setup

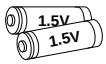
1. Turn on the PC and apply power to the set.
2. Turn on the display by pressing the **POWER** button on the set's remote control.
3. Use the **TV/AV** or **MULTIMEDIA** button on the remote control to select the RGB or DVI input source.
4. Set the resolution output of the PC to SXGA or under (1280 x 1024, 60Hz). (Refer to p. 13)

RGB / DVI mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
	37.861	85.08
720x400	31.469	70.08
	37.927	85.03
640x480	31.469	59.94
	35.000	66.66
	37.861	72.80
	37.500	75.00
	43.269	85.00
848x480	31.500	60.00
	37.799	70.00
	39.375	75.00
852x480	31.500	60.00
	37.799	70.00
	39.375	75.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
832x624	49.725	74.55
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02
	68.677	85.00
1152x864	54.348	60.05
	63.995	70.01
	67.500	75.00
	77.487	85.00
1152x870	68.681	75.06
1280x960	60.023	60.02
1280x1024	63.981	60.02



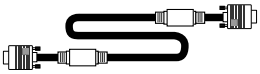
Owner's Manual



Alkaline batteries

Remote Control handset

2-TV bracket bolts



D-sub 15 pin cable

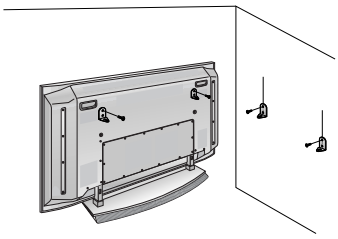
Power Cord

DVI-D Cable

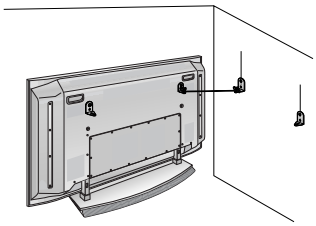
2-TV brackets
2-Wall brackets

Attaching the TV assembly to the wall

- Secure the TV assembly by attaching it to a wall for additional support.



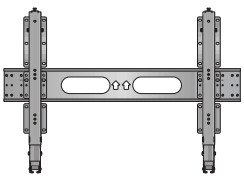
• Install the TV brackets on the TV as shown.
Insert the 2 bolts and tighten securely, in the upper holes on the bracket.
Install the wall brackets on the wall with 4 bolts*, (not supplied with the product), as shown.
Match the height of the TV brackets and the wall brackets.
Check to be sure the brackets are tightened securely.



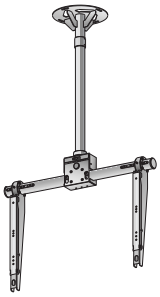
• Secure the TV assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

Optional Extras

- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.



Tilt wall mounting bracket



Ceiling mounting bracket

Video cables

Audio cables

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Application Range

This spec is applied to the 42”PDP TV used RF-043B Chassis.

Chassis	Model Name	Market Place	Brand
RF-043B	RZ-42PX10	EU	LG
	RT-42PX10	Non-EU	LG

■ Specification

Each part is tested as below without special appointment.

1) Temperature : 25¡ 5°C (77¡ 9°F)
2) Relative Humidity: 65¡ 10%
3) Power Voltage: Standard Input voltage (100V~240V@ 50/60Hz)
   * Standard Voltage of each product is marked by models.
4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
5) The receiver must be operated for about 20 minutes prior to the adjustment.

■ Test and Inspection Method

1) Performance : LGE TV test method followed.
2) Demanded other specification
   Safety: CE, IEC specification
   EMC : CE, IEC

Model Name	Market	Remark	Appliance
RT-42PX10	EU	Safety : IEC/EN60095 EMI : EN55013 EMS : EN55020	TEST
RZ-42PX10	Non-EU	Safety : IEC60065 EMI : CISPR13	TEST

■ General Specification

1. General Specification

No	Item	Specification	Remark
1	Display Screen Device	42 inch wide Color Display Module	PDP
2	Aspect Ratio	16:9	
3	PDP Module	PDP42V6xxxx, RGB Closed Type	
4	Screen Filter	45% Total light transmittance (E- Mesh)	Maker : NBK / Mitsui / LG Chemical
5	Operating Environment	1) Temp : 0~40 deg 2) Humidity : 0~85%	LGE SPEC
6	Storage Environment	1) Temp : -20~60 deg 2) Humidity : 0~85%	
7	Input Voltage	AC100 ~ 240V, 50/60Hz	Maker : SONY / Murata / Sanken

2. Model Specification

(1) RZ-42PX10

No	Item	Specification	Remark
8	Market	EU	
9	Broadcasting	PAL B/G/I/D/K, SECAM L/L	
10	Receiving system	Upper Heterodyne	
11	Scart Jack (3EA)	PAL, SECAM	
12	Video Input(2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
13	S-Video Input(2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
14	Component Input(1EA)	Y/Cb/Cr, Y/Pb/Pr	
15	RGB Input(1EA)	RGB-PC	
16	DVI Input(1EA)	DVI-PC	DVI-D
17	Audio Input(4EA)	PC Audio, Component,AV(2EA)	L/R Input
18	Wired Control	Discrete IR	

(2) RT-42PX10

No	Item	Specification	Remark
19	Market	Non-EU	
20	Broadcasting	PAL B/G/I/D/K, NTSC	
21	Receiving system	Upper Heterodyne	
22	Video Input(2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
23	Video Output(1EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
24	S-Video Input(2EA)	PAL, SECAM, NTSC	4 System : PAL B/G/I/D/K, SECAM L, NTSC4.43,PAL60
25	Component Input(2EA)	Y/Cb/Cr, Y/Pb/Pr	
26	RGB Input	RGB-PC RGB-DTV(for Austrailian)	
27	DVI Input	DVI-PC	DVI-D
28	Audio Input(5EA)	PC Audio, Component,AV(2EA), AV(2EA)	L/R Input
29	Wired Control	Discrete IR	

ADJUSTMENT INSTRUCTIONS

1. Application Range

The spec sheet is applied all of the 42"PDP TV, RF-043B chassis by manufacturing LG TV Plant or sort plants.

2. Specification

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100~220V, 50/60Hz.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

● After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
● Enter into HEAT-RUN MODE
1) Press the POWER ON KEY on R/C for adjustment.
2) OSD display and screen display 100% full WHITE PATTERN.

※ Set is activated HEAT-RUN without signal generator in this mode.
※ Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

Caution) If you turn on a still screen more than 20 minutes (Especially digital pattern, cross hatch pattern), a after image may be occur in the black level part of the screen.

3. PCB assembly adjustment method

3-1. Channel memory

(1) Setting up the G-prove

1) Install the GProve. (GProve4.4.0.2.exe)
2) After installing the Gprobe, [Option -> Connection Setup] or click the icon indicated in the picture and then setup as below the picture.
(In case of the port (second one), set to the serial port of the connected PC
The other only have to be set as below the picture.)

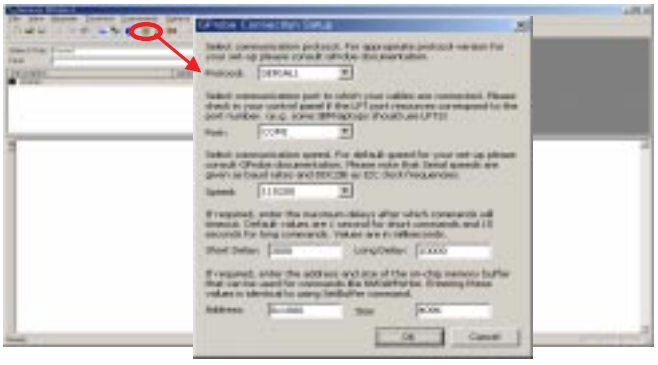


fig1

3) After finishing inputs, click the button [OK] to complete the connection setup.

(2) Confirming the G-prove

1) Connect Rs232 cable and then turn on the power.
if communication is correct, the message is showed like in the left output terminal.
2) If the message is not showed, push the [INSTART] button of the adjust remocon twice, and change the right selection of the [System Control -> RS-232 Host] from GProbe to PC.
** If it is impossible to check the OSD, push the [TILT] button of the adjust remocon.
Then, the message which is "Starting Gprove..." comes up. From this time, communication is operated correctly.
However, you have to push the [TILT] button again in case of turning on Main Power.
** If you want to check again whether communication is on or not, input "test" and push the Enter key on the right input terminal. If communication is on, the message of "Test passed." will come up

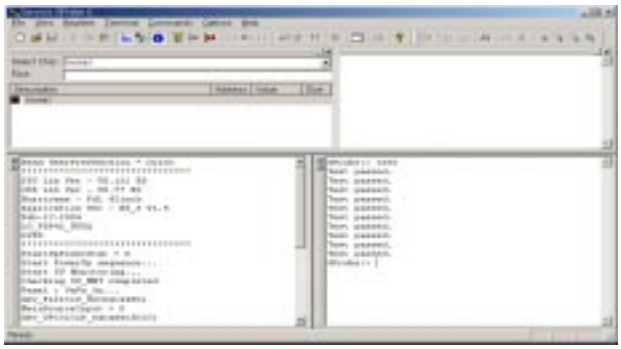


fig2

(3) Channel memory method

1) Click [Command -> Batch].
2) When the window of [Batch] is showed, enter the text file (Ch_Memory-RZ_PX10.txt) in the right blank of the File.
3) Click the button [OK] to write CH information in the EEPROM.
4) It means the completion of the CH memory download that the message of right output terminal is showed as below.

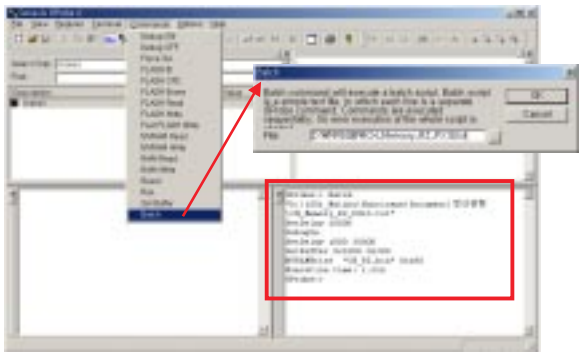


fig3

3-2. HDCP download

(1) Setting up & Confirming the G-prove

: refer to 3-1-(1) and 3-1-(2)

(2) HDCP download method

1) Click [Command -> NVRAM Write]
2) When the window of [NVRAM Write] is showed, select "LGEKEY1.bin" to insert fill up in the File.
3) LGEKEY1 : first KEY value
4) Address : insert '0'
5) After finishing inputs, click the button [OK] to write HDCP key in the EEPROM.
6) It means the end of the HDCP key download that the message of Output terminal is showed as below.

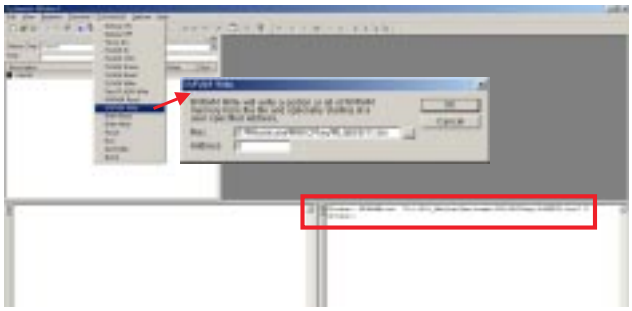
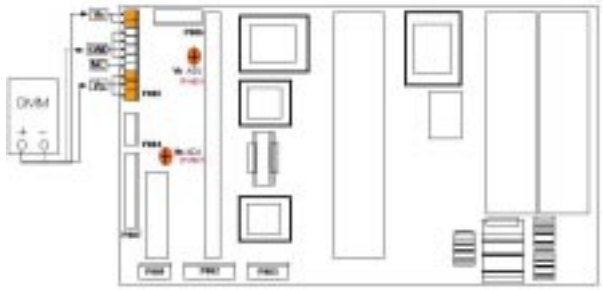


fig4

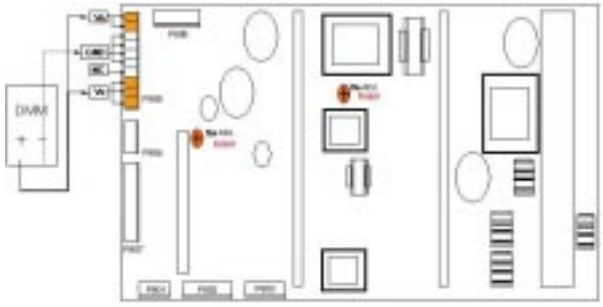
4. SET assembly adjustment method

Each PCB Assy must be checked by the Check JIG Set before whole assembly. (Be careful the POWER PCB Assy not to damage to PDP Module)

4-1. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage Adjustments)



< 3501V00180A >



< 3501V00182A >

fig5 Connection Diagram of power adjustment for measuring.

(1) Test Equipment

: D.M.M 1EA

(2) Connection Diagram for Measuring

: refer to fig5

(3) Adjustment Method

1) Adjustment method of P/No 3501V00180A B/D

1. Va Adjustment

a. After receiving 100% Full White Pattern, HEAT RUN.
b. Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
c. After turning RV 501, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top (Deviation; ±0.5V)

2. Vs Adjustment

a. Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.
b. After turning RV 401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

2) Adjustment method of P/No 3501V00182A B/D

1. Va Adjustment

a. After receiving 100% Full White Pattern, HEAT RUN.
b. Connect + terminal of D.M.M to Va pin of P805, connect - terminal to GND pin of P805.
c. After turning RV 601, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top (Deviation; ±0.5V)

2. Vs Adjustment

a. Connect + terminal of D.M.M to Vs pin of P805, connect – terminal to GND pin of P805.
b. After turning RV 401, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; ±0.5V)

4-2. Adjustment of White Balance

(1) Required Equipment

Color Analyzer (CA-100 or same product)

(2) Connection Diagram of Equipment for Measuring

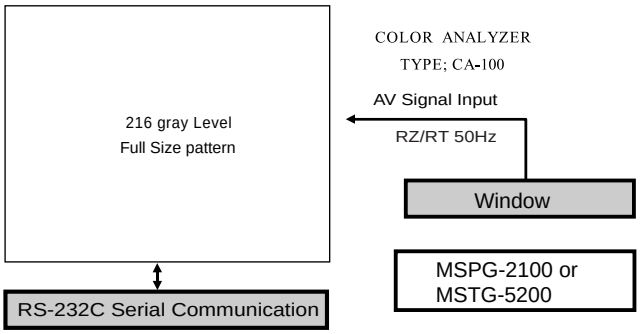


fig6 White Balance Adjustment

(3) Adjustment of White Balance

- Operate the Zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
- For manual adjustment, it is also possible by the following sequence.

1) Select white pattern of heat-run mode by pressing power on key on remote control for adjustment then operate heat run more than 15 minute.
2) Supply 2 Gray Pattern (216 Level Full Size Pattern) signal to VIDEO input.
(RZ-42PX10 : AV4 INPUT 50Hz
,RT-42PX10 : AV2 INPUT 50Hz)
(refer to Fig6)
3) To adjust, stick sensor to 216 Gray Level Pattern, press ADJ key twice(White Balance) on remote control.
For adjustment and ▲, ▼ on remote control for adjustment mode to select Red Gain and Blue Gain, press VOL +, - Key and adjust it until color coordination becomes as below.

X ; 0.283 ± 0.003, Y; 0.297 ± 0.003,
Color Temperature; **9,300°K ± 500°K**

4) Exit adjustment mode using ■ Key.

4-3. Auto RGB Color Balance

(1) Pattern Equipment :

PC Pattern Generator (VG828, VG854, 801GF, MSP3240A)
(16 Gray Scale Pattern output(RGB output Level: 0.7Vp-p)

(2) Method of Auto RGB Color Balance

1) Input RGB Source : 16 Gray Scale Pattern output
(RGB output Level : 0.7Vp-p)
2) Press ADJ KEY on R/C for adjustment.
3) Press Vol. + KEY and operate To set.
4) Auto-RGB OK means completed adjustment.

4-4. Auto Component Color Balance

(1) Pattern Equipment : MSP3240A or same product

(16 Gray Scale Pattern output(Component outputLevel: 0.7Vp-p)

(2) Method of Auto RGB Color Balance

1) Input RGB Source : Component 480p/576p 16 Gray Scale Pattern output
At this time, except Pb and Pr signal, only Y signal insert.
2) Press ADJ KEY on R/C for adjustment.
3) Press Vol. + KEY and operate To set.
4) Auto-RGB OK means completed adjustment

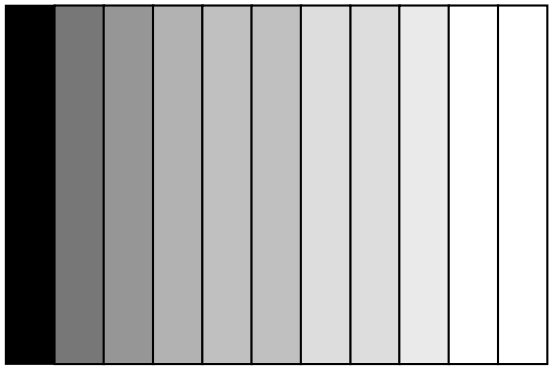


fig7 Auto RGB/ Component Color Balance Test Pattern

4-5. Auto Adjustment Map(RS-232C)

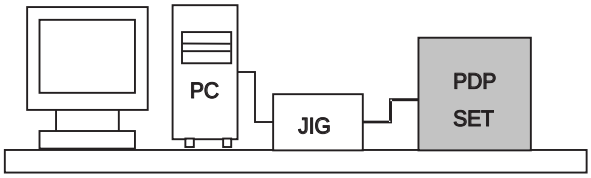
Type		RF-043B_PDP42				
Baud Rate		Data bit		Stop bit	Parity	
115200		8		1	NONE	
	Index	Cmd1	Cmd2	Data	Min Value	Max Value
Protocol Setting	R Gain	j	a		00(00)	255(FF)
	G Gain	j	b		00(00)	255(FF)
	B Gain	j	c		00(00)	255(FF)
	R Offset	j	d		00(00)	255(FF)
	G Offset	j	e		00(00)	255(FF)
	B Offset	j	f		00(00)	255(FF)

4-6. DDC Data Input

(1) Required Test Equipment

1) A jig for adjusting PC, DDC (PC serial to D-sub Connection equipment)
2) S/W for writing DDC (EDID Data Write & Read)
3) D-sub 15P Cable,D-Sub to DVI Connector (Connect to DVI Jack)

(2) Setting of Device



(3) Preparation for Adjustment

1) Set devices as above and turn the PC, jig on.
2) Put S/W for writing DDC (EDID data Write & Read) into operation. (operated in DOS mode.)

(4) Sequence of Adjustment

1) DDC Data Input for Analog-RGB

1. Put the set on the table and turn the power on.
2. Connect PC Serial to D-sub 15P Cable of jig for DDC adjustment to RGB terminal (D-Sub 15Pin).
3. Operate S/W for DDC record and select DDC data for Analog RGB in Model Menu.
4. Operate EDID Write command.
5. Operate EDID Read command and check whether Check Sum is 53.
6. If Check Sum is not 53, repeat 3 ~ 4.
7. If Check Sum is 53, DDC data for Analog-RGB input is completed.

2) DDC Data input for Digital-RGB(DVI)

1. Connect PC Serial to DVI Cable of jig for DDC adjustment to DVI terminal (DVI Jack).
2. Operate S/W for DDC record and select DDC Data for digital RGB in Model Menu.
3. Operate EDID Write command.
4. Operate EDID Read command and check whether Check Sum is D2(1page), BF(2page).
5. If Check Sum is not D2(1page), BF(2page), repeat 3 ~ 4.
6. If Check Sum is D2(1page), BF(2page), DDC data for Analog-RGB input is completed.

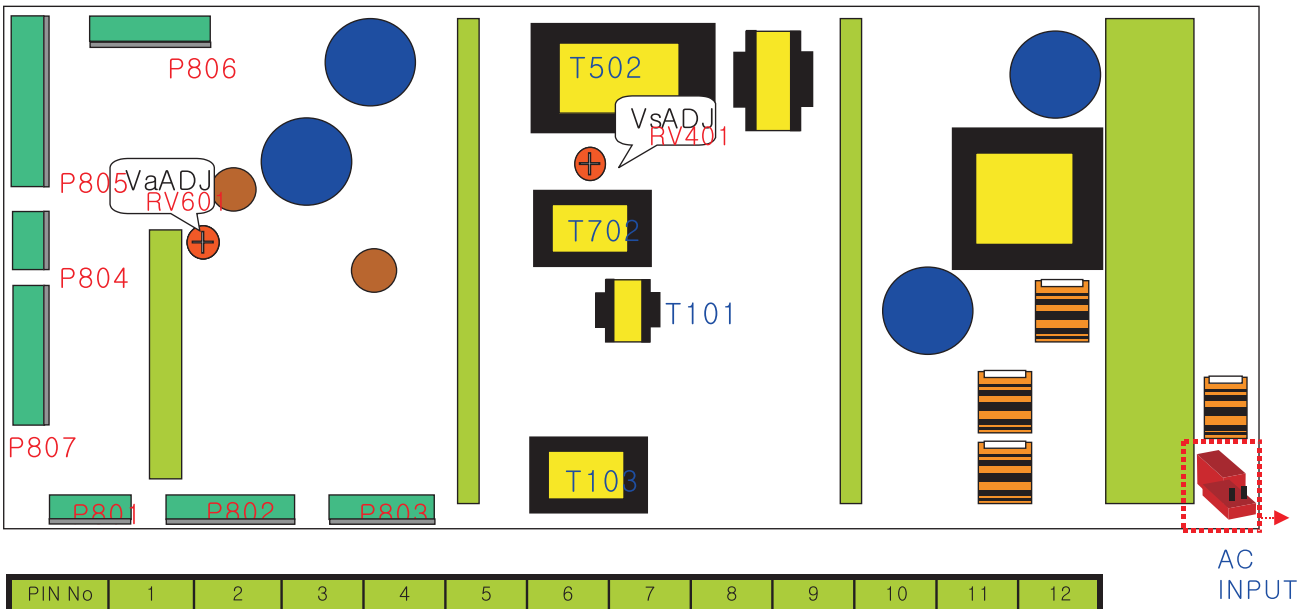
TROUBLE SHOOTING GUIDE

1. Power Board

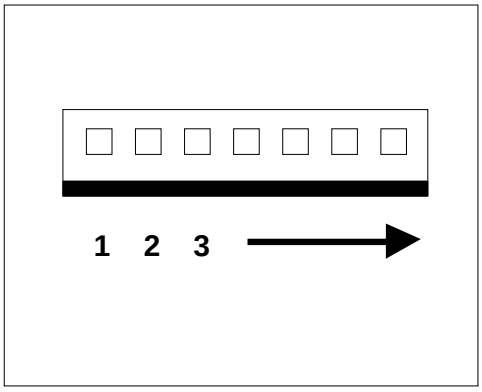
1-1. The whole flowchart which it follows in voltage output state

Start check
Doesn't the screen whole come out?
Yes
It is identical with Power Off condition?
No
Is the Interface signal operated?
Yes
1. Check the Power Off condition.
Yes
2. Check the Interface signal condition.
No
Doesn't the low pressure output come out?
Yes
Doesn't the St-by 5V signal come out?
No
Doesn't the 5V Monitor signal come out?
No
Doesn't the VSC signal RL-ON come out?
Yes
3. Check the St-by 5V signal circuit.
Yes
4. Check the 5V Monitor signal circuit.
Yes
5. Check the VSC RL-ON signal.
No
Doesn't the high tension output come out?
Yes
Doesn't the VSC signal Vs-ON come out?
No
Doesn't the Vs, Va voltage output come out?
Doesn't the VSC low pressure output come out?
No
Yes
7. Check the VSC Vs-ON signal
Yes
8. Check the Vs, Va voltage output circuit.
Yes
6. Check the VSC low pressure output
No
High tension output voltage Drop it occurs?
Yes
When remove the Y, Z B/D Module Input Connector, Power Board high tension output voltage Drop it occurs?
No
When remove the Y B/D Module Input Connector, output voltage Drop it occurs?
No
When remove the Z B/D Module Input Connector, output voltage Drop it occurs?
No
Manufacture enterprise meaning of a passage
Yes
9. Check the Power Board Output high tension circuit
Yes
10. Check the Z B/D Module Coutput circuit
Yes
11. Check the Y B/D Module Coutput circuit

1-2. Sony Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	25V	25V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



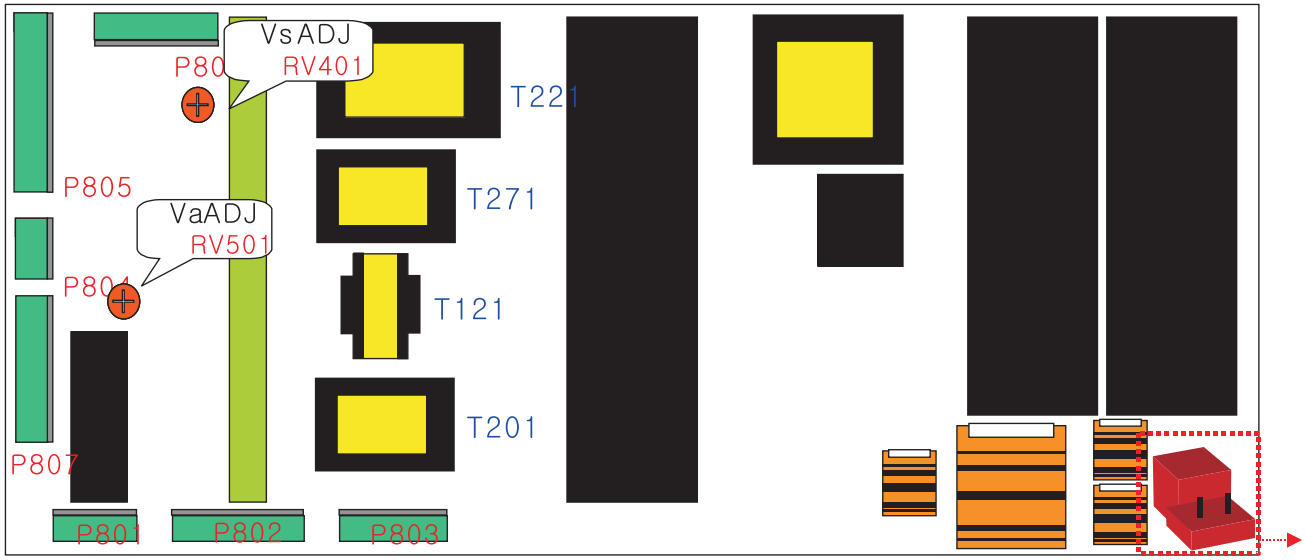
T502: Vs Trans

T702: Va Trans

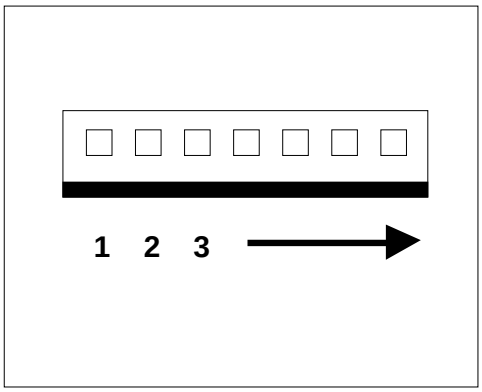
T101: St-by Trans

T103: Low Voltage Trans

1-3. Sanken Power Board Structure



PIN No	1	2	3	4	5	6	7	8	9	10	11	12
P801	POD	5V-MNT	VS-ON	GND	STBY5V	RL-ON	A-ON					
P802	GND	GND	12V	12V	GND	GND	6V	6V	GND	GND	3.4V	3.4V
P803	GND	12V	GND	3.4V	GND	6V	GND	GND	19V	19V		
P804	GND	GND	5V	5V								
P805	Vs	Vs	Vs	NC	GND	GND	GND	GND	Va	Va		
P806	5V	GND	Va	GND	GND	NC	Vs	Vs				
P807	5V	5V	5V	5V	GND	GND	GND	GND				



T221: Vs Trans

T271: Va Trans

T121: St-by Trans

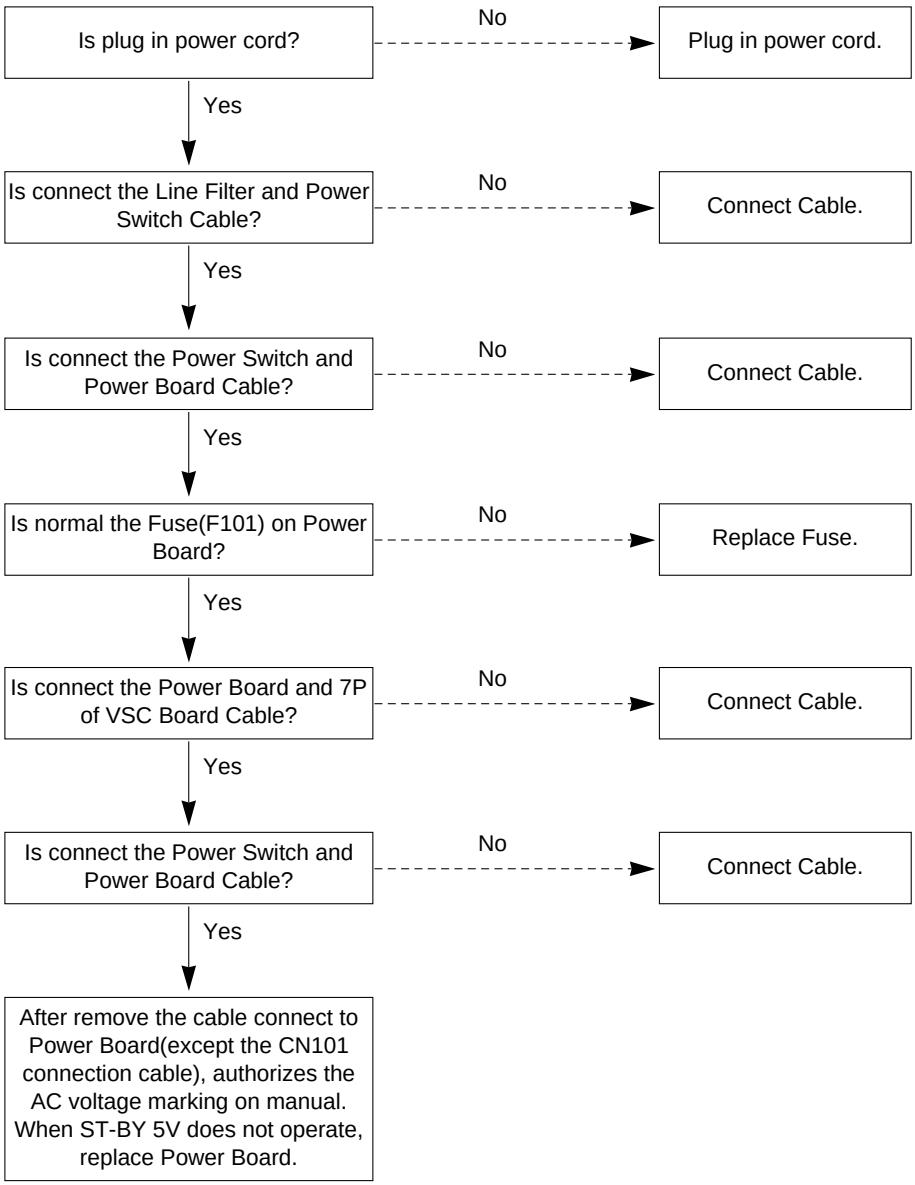
T201: Low Voltage Trans

2. No Power

(1) Symptom

- Does't minute discharge at module.
- Non does not come in into the front LED.

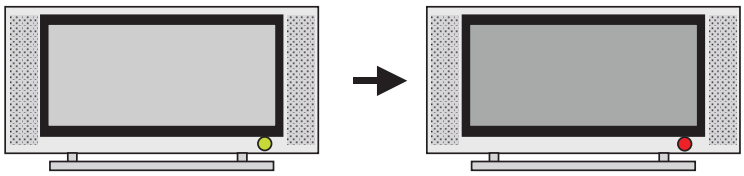
(2) Check follow


Is plug in power cord?
No
Plug in power cord.
Yes
Is connect the Line Filter and Power Switch Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
Is normal the Fuse(F101) on Power Board?
No
Replace Fuse.
Yes
Is connect the Power Board and 7P of VSC Board Cable?
No
Connect Cable.
Yes
Is connect the Power Switch and Power Board Cable?
No
Connect Cable.
Yes
After remove the cable connect to Power Board(except the CN101 connection cable), authorizes the AC voltage marking on manual. When ST-BY 5V does not operate, replace Power Board.

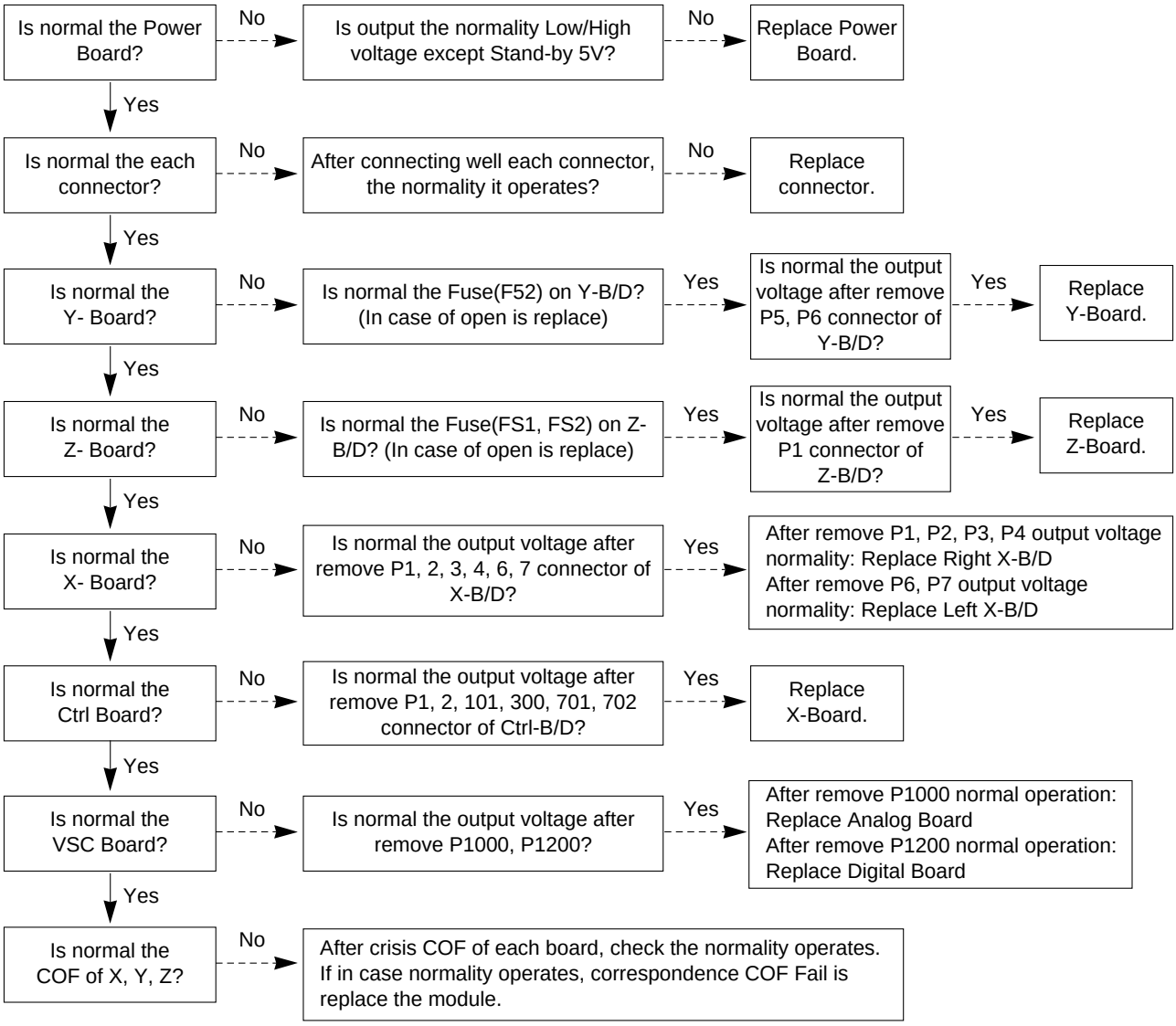
3. Protect Mode

(1) Symptom

- After once shining, it does not discharge minutely from module
- The Rely falls(The sound is audible “click”)
- It is converted with the color where the front LED is red from green.



(2) Check follow

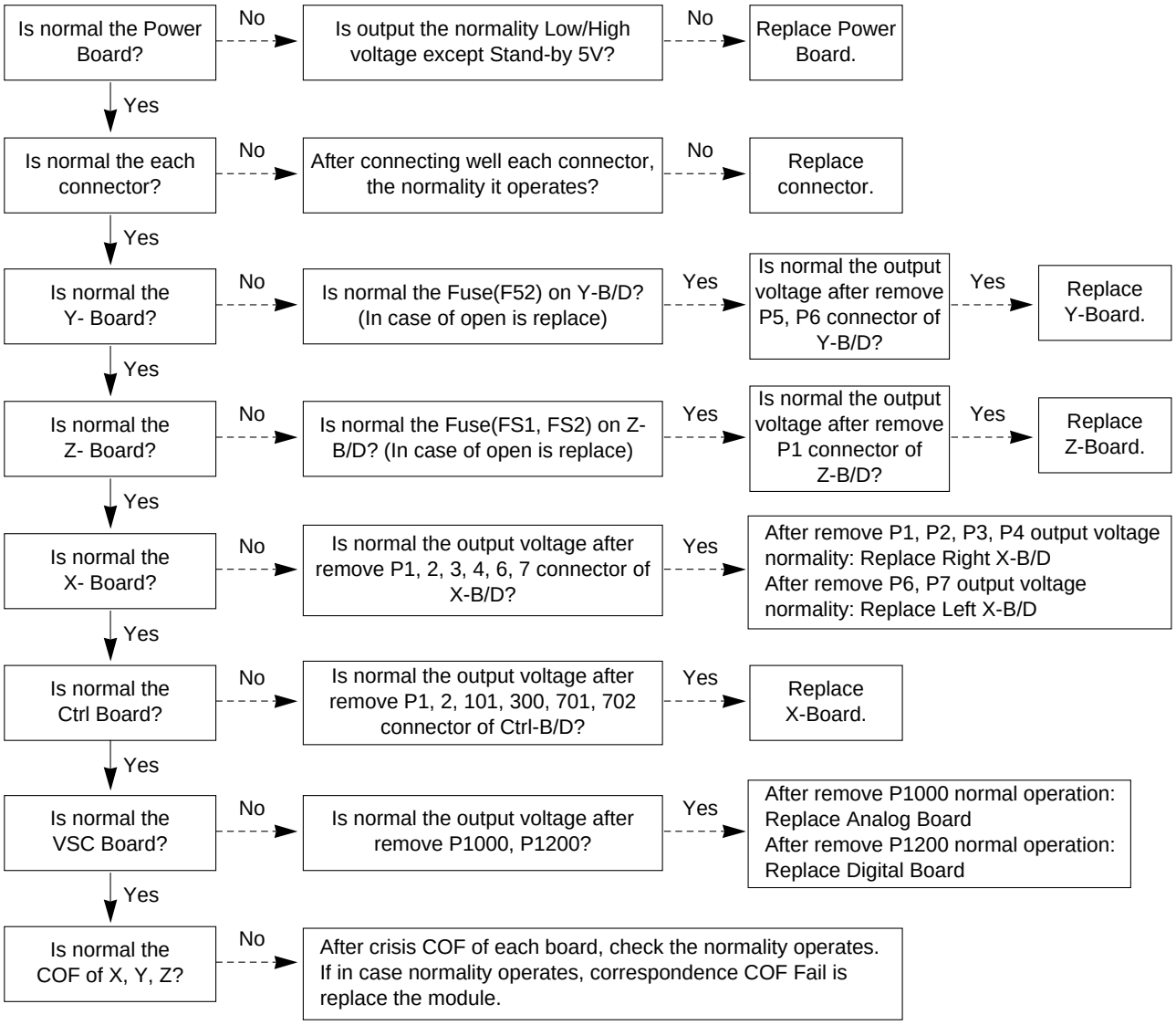

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

4. No Raster

(1) Symptom

- Does't minute discharge at module.
- It maintains the condition where the front LED is green.

(2) Check follow

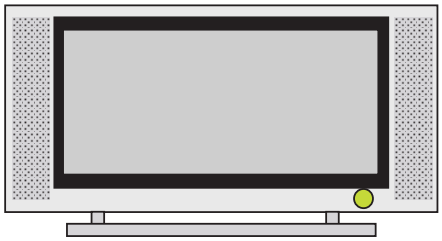

Is normal the Power Board?
No
Is output the normality Low/High voltage except Stand-by 5V?
No
Replace Power Board.
Yes
Is normal the each connector?
No
After connecting well each connector, the normality it operates?
No
Replace connector.
Yes
Is normal the Y- Board?
No
Is normal the Fuse(F52) on Y-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P5, P6 connector of Y-B/D?
Yes
Replace Y-Board.
Yes
Is normal the Z- Board?
No
Is normal the Fuse(FS1, FS2) on Z-B/D? (In case of open is replace)
Yes
Is normal the output voltage after remove P1 connector of Z-B/D?
Yes
Replace Z-Board.
Yes
Is normal the X- Board?
No
Is normal the output voltage after remove P1, 2, 3, 4, 6, 7 connector of X-B/D?
Yes
After remove P1, P2, P3, P4 output voltage normality: Replace Right X-B/D
After remove P6, P7 output voltage normality: Replace Left X-B/D
Yes
Is normal the Ctrl Board?
No
Is normal the output voltage after remove P1, 2, 101, 300, 701, 702 connector of Ctrl-B/D?
Yes
Replace X-Board.
Yes
Is normal the VSC Board?
No
Is normal the output voltage after remove P1000, P1200?
Yes
After remove P1000 normal operation: Replace Analog Board
After remove P1200 normal operation: Replace Digital Board
Yes
Is normal the COF of X, Y, Z?
No
After crisis COF of each board, check the normality operates. If in case normality operates, correspondence COF Fail is replace the module.

5. In case of occur strange screen into specific mode

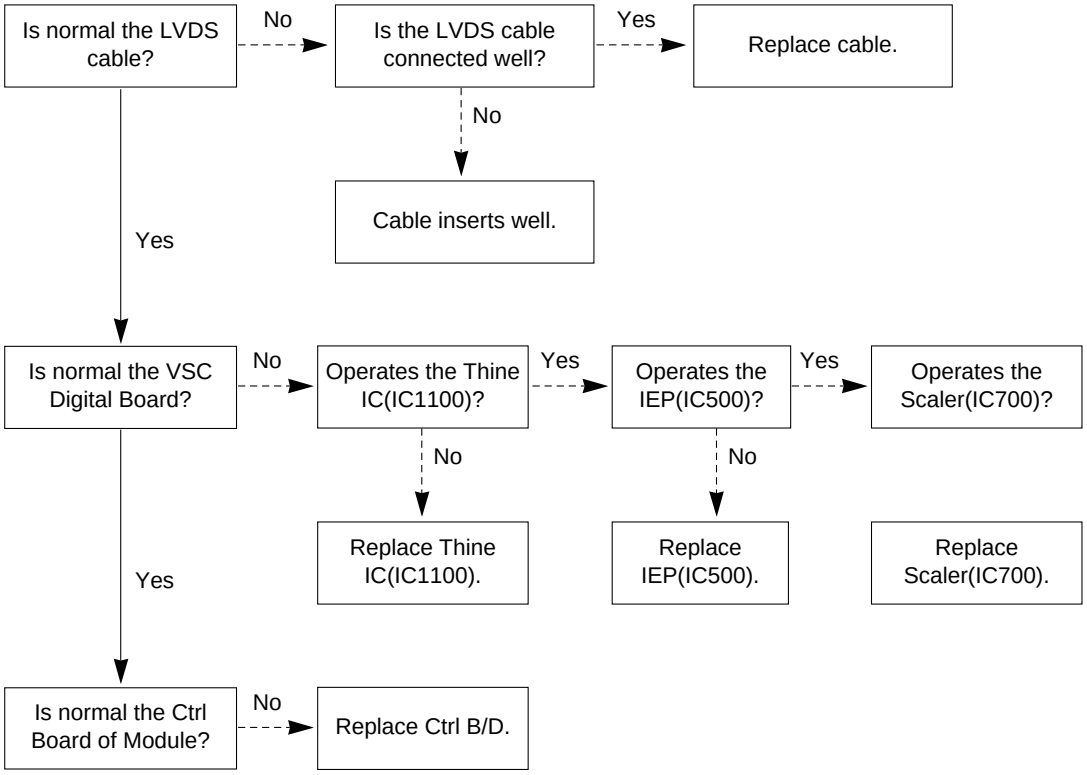
5-1. In case of does't display the OSD

(1) Symptom

- LED is green
- The minute discharge continuously becomes accomplished from module



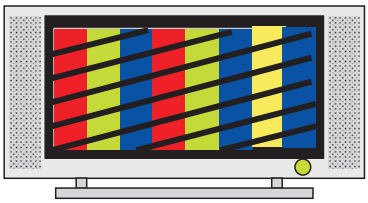
(2) Check follow



5-2. In case of does't display the screen into specific mode

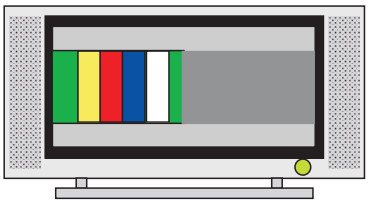
(1) Symptom

- The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

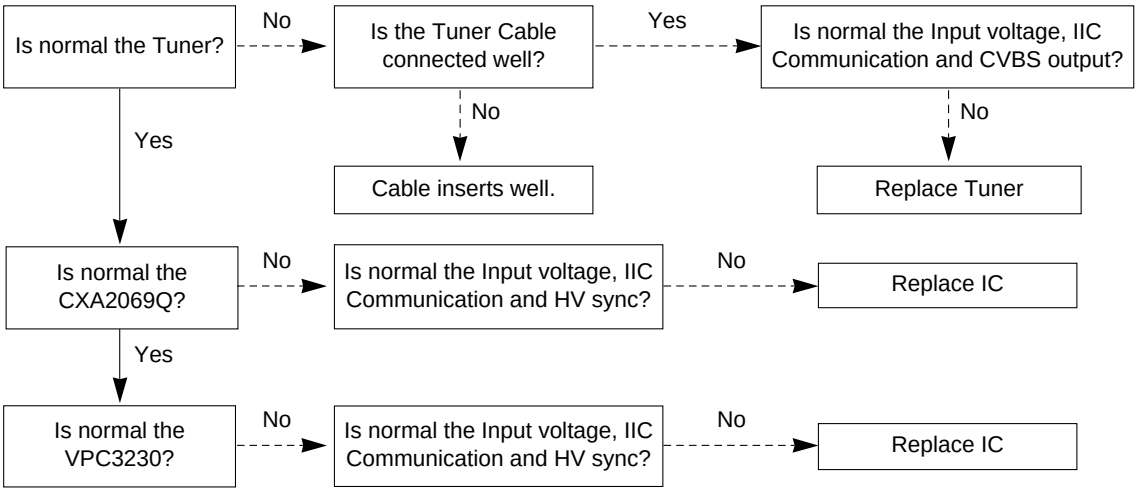


(2) Check follow

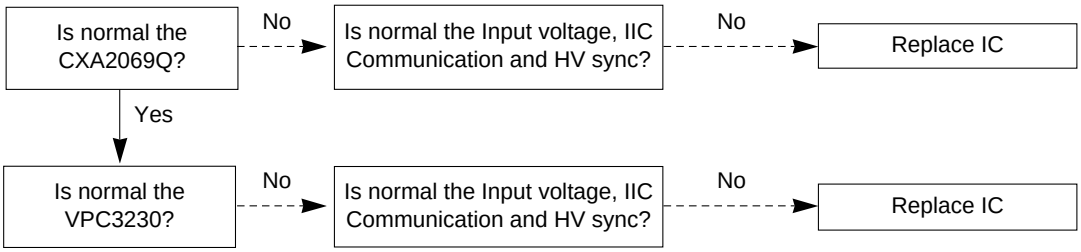
- Check the all input mode should become normality display.
- Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode. (Re-Check it Swap)



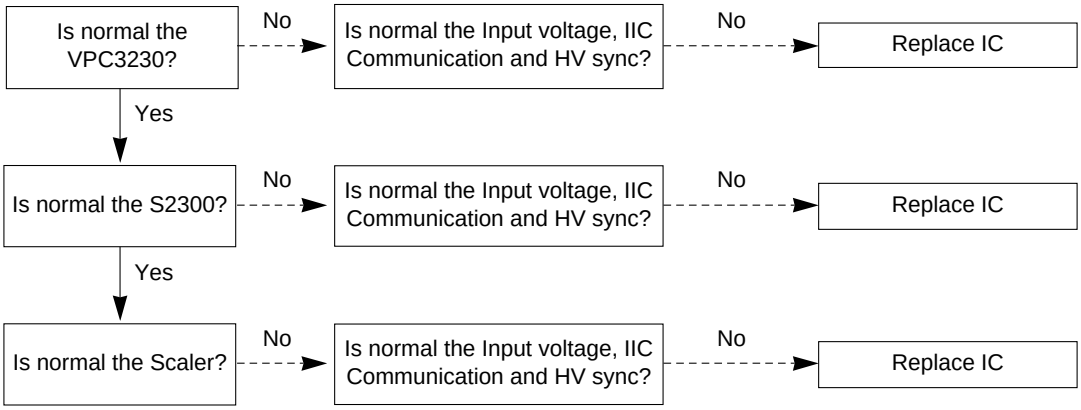
(3) In case of becomes unusual display from RF mode



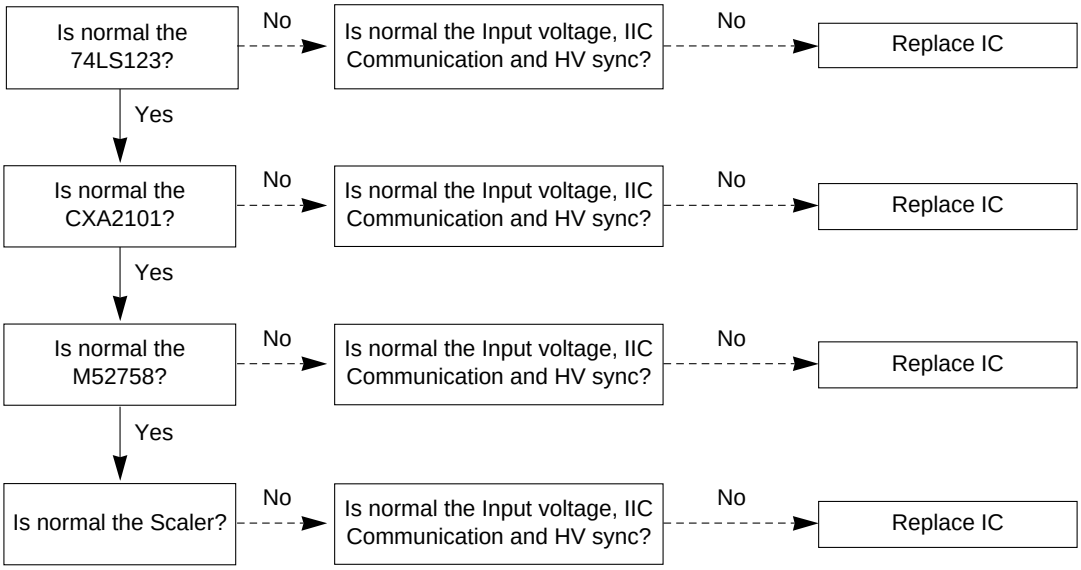
(4) In the case of becomes unusual display from RF, AV mode



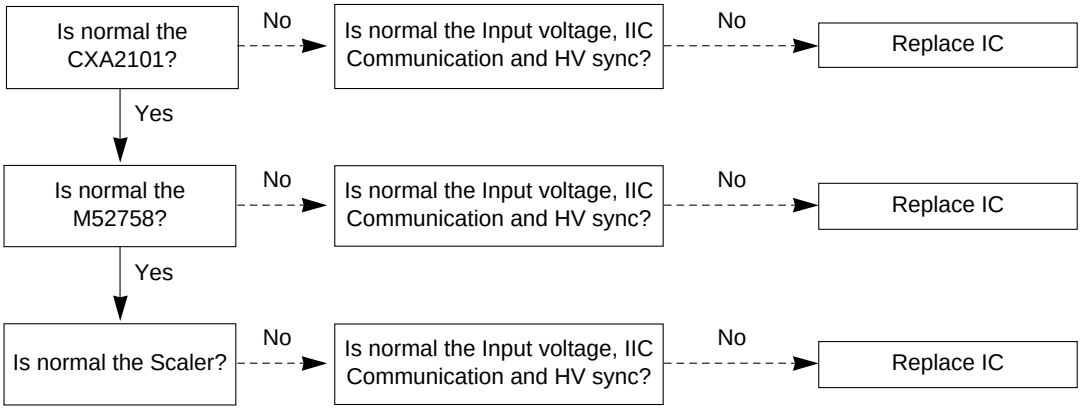
(5) In the case of becomes unusual display from RF, AV, Component 480i mode



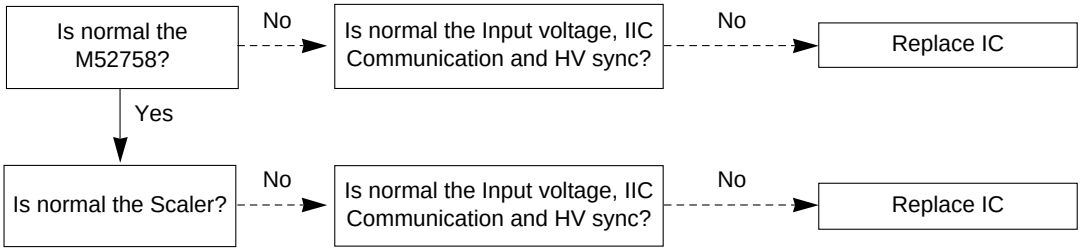
(6) In the case of becomes unusual display from Component DTV mode



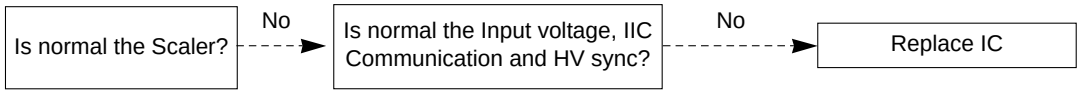
(7) In the case of becomes unusual display from RGB DTV mode



(8) In the case of becomes unusual display from RGB PC mode



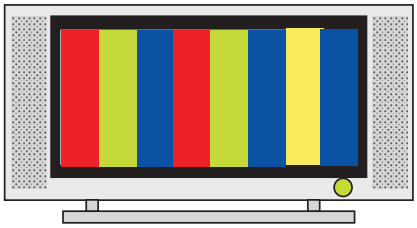
(8) In the case of becomes unusual display from DVI mode



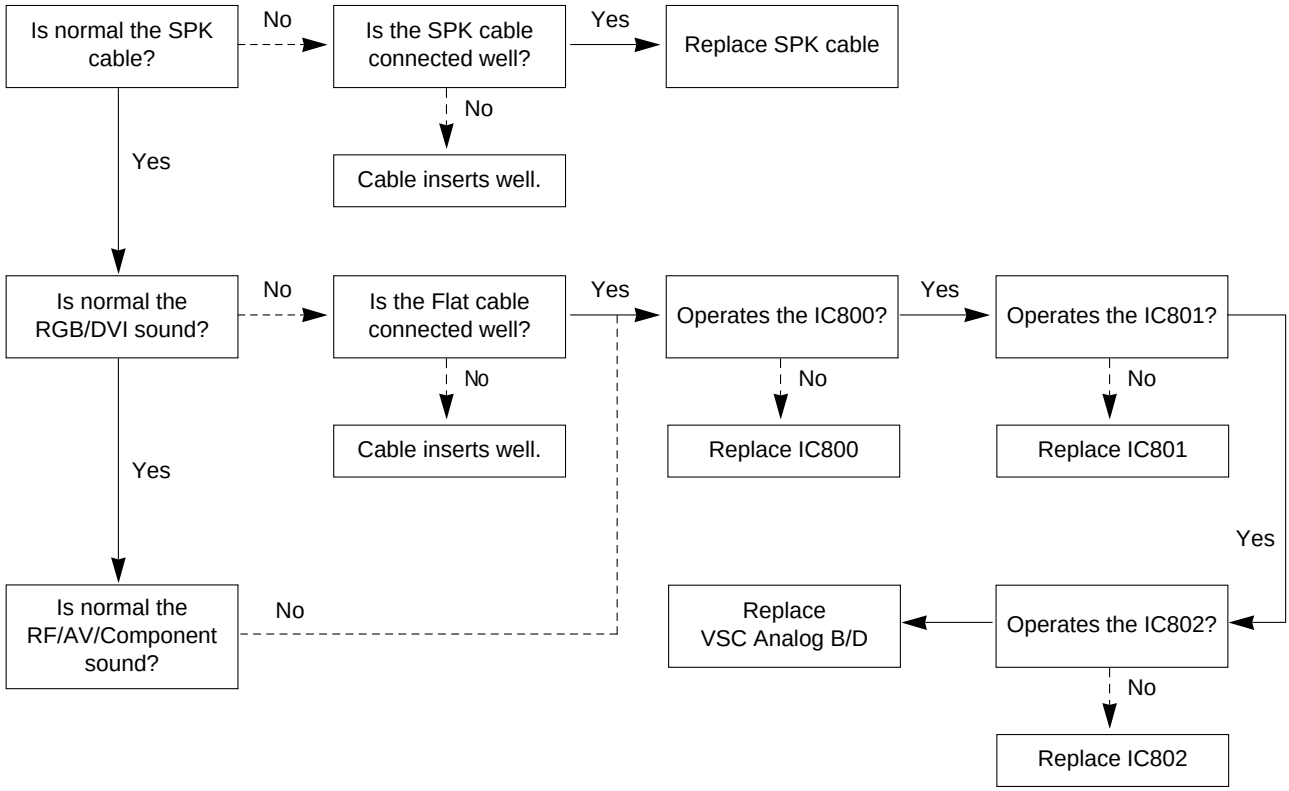
6. In case of no sound

(1) Symptom

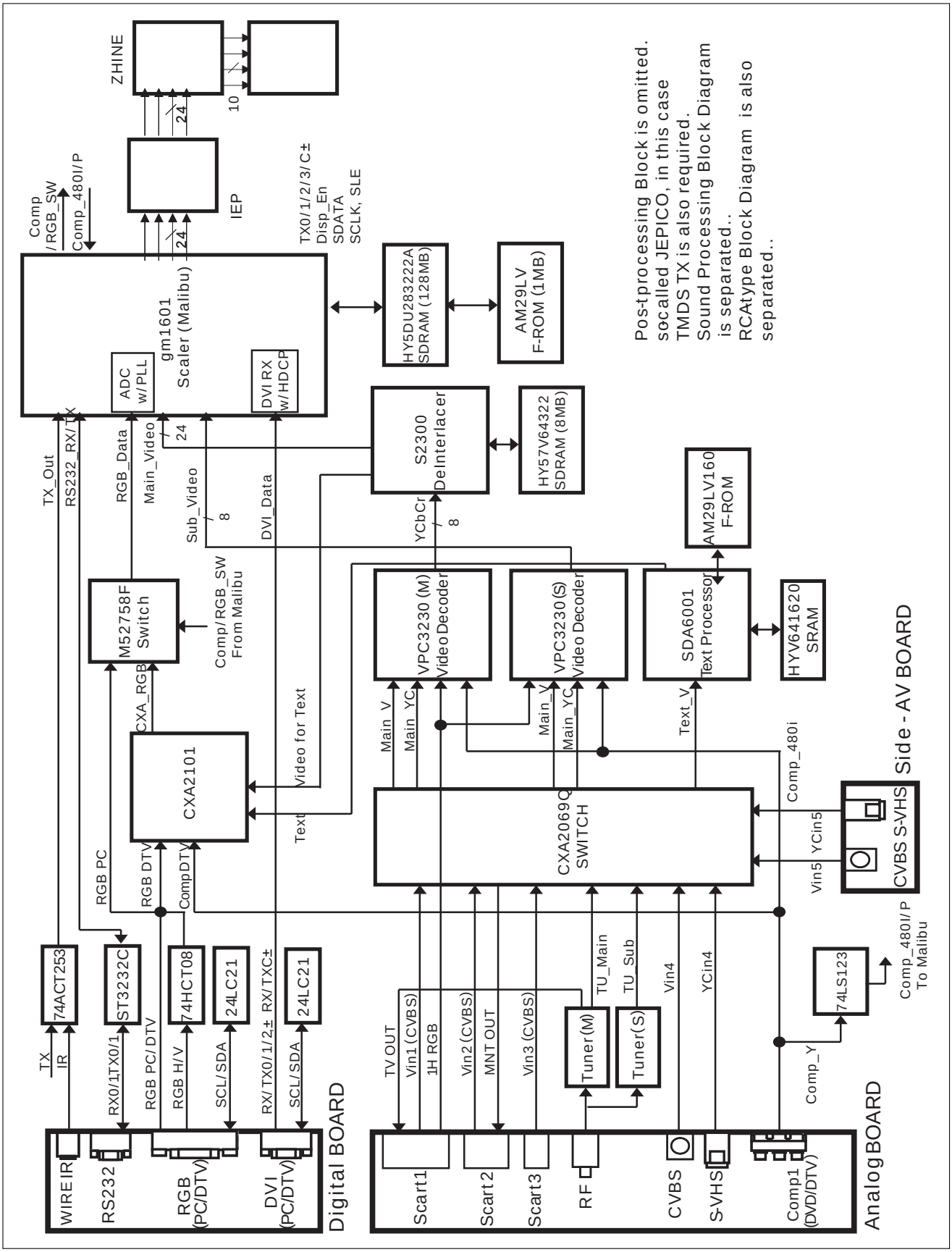
- LED is green
- Screen display but sound is not output

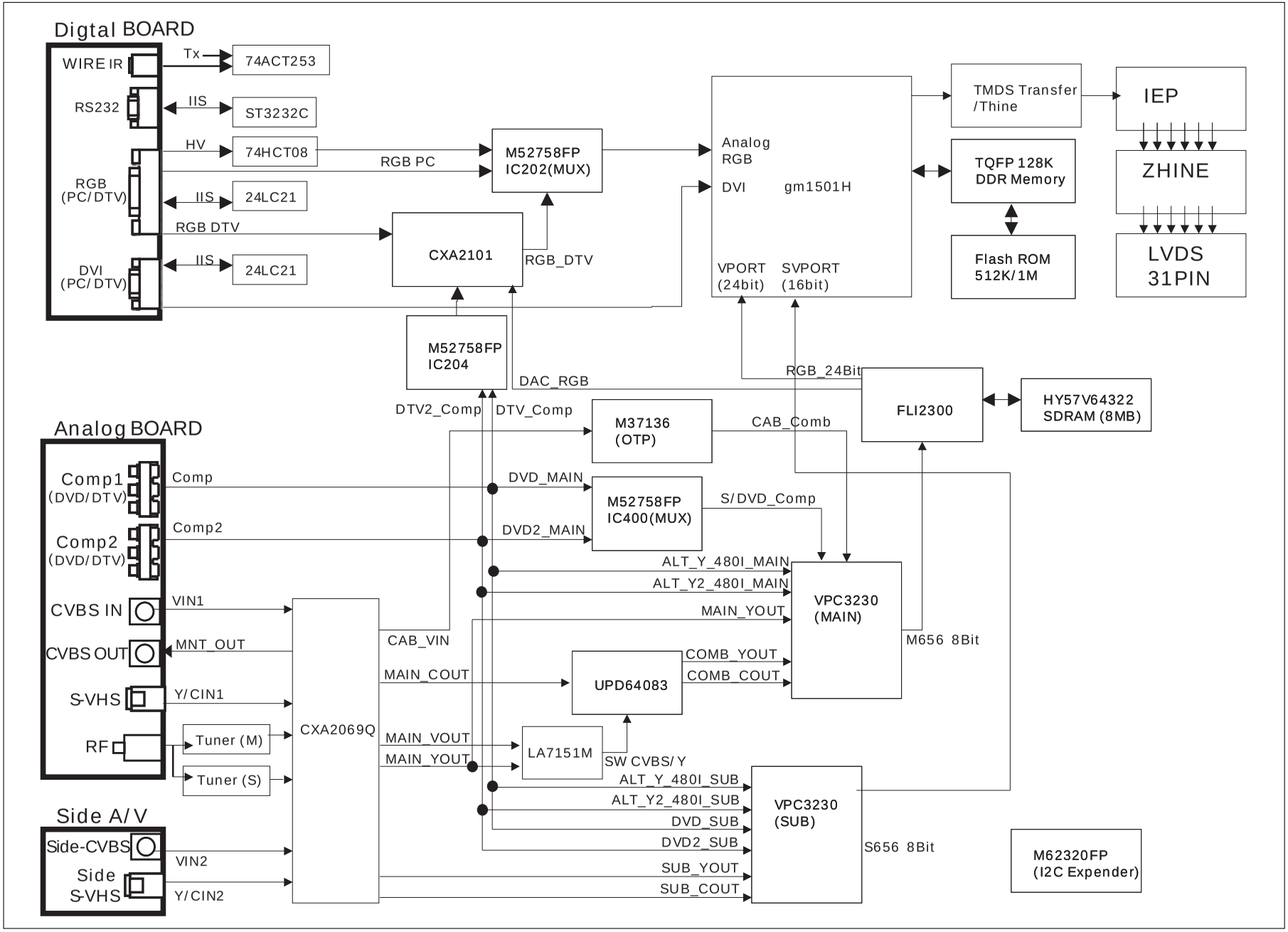


(2) Check follow



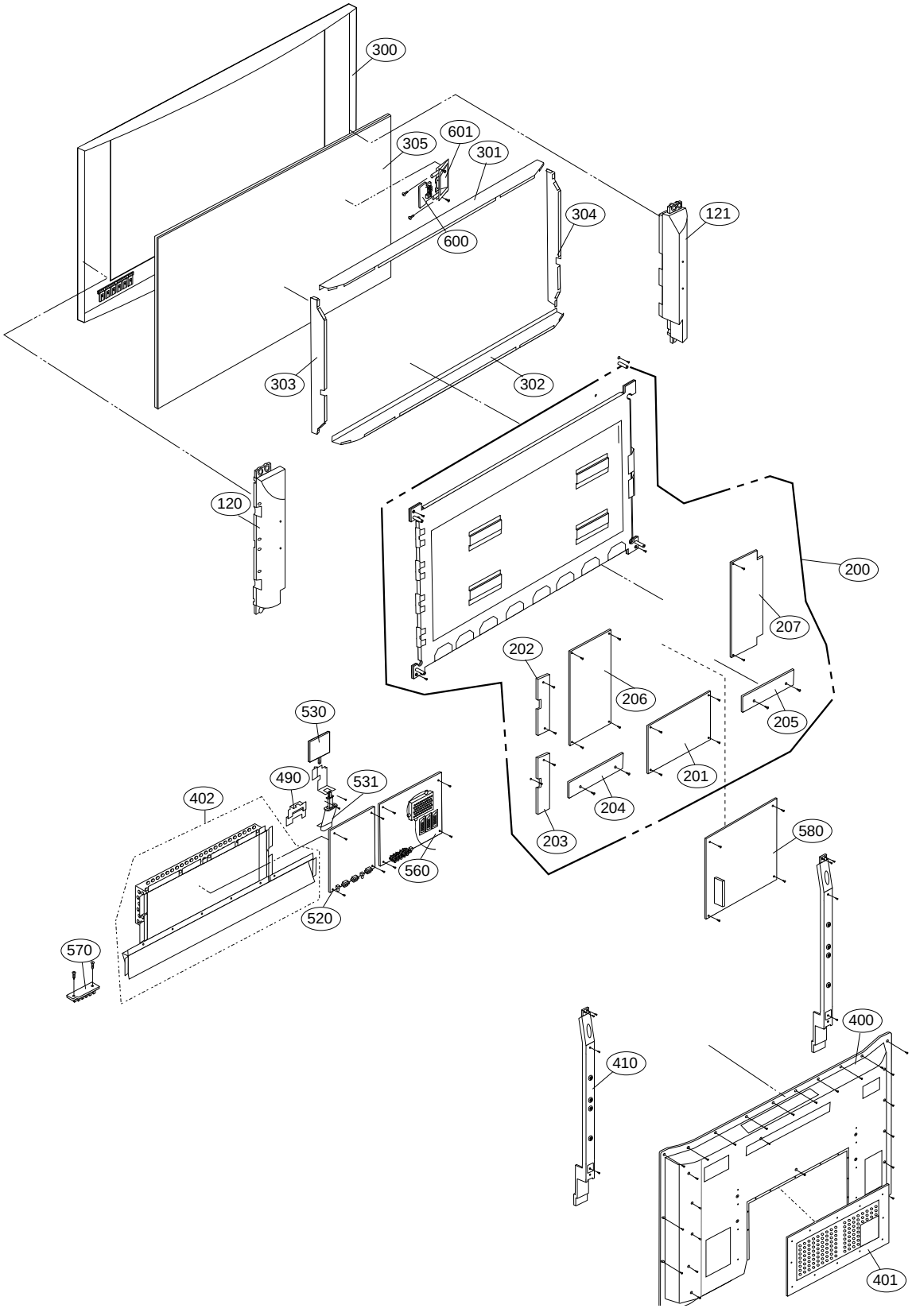
BLOCK DIAGRAM




Digtal BOARD
WIRE IR
Tx
74ACT253
RS232
IIS
ST3232C
HV
74HCT08
RGB PC
M52758FP
IC202(MUX)
RGB
(PC/DTV)
IIS
24LC21
RGB DTV
CXA2101
RGB_DTV
DVI
(PC/DTV)
IIS
24LC21
Analog
RGB
DVI
gm1501H
VPORT
(24bit)
SVPORT
(16bit)
TMDS Transfer
/Thine
TQFP 128K
DDR Memory
Flash ROM
512K/1M
IEP
ZHINE
LVDS
31PIN
M52758FP
IC204
DAC_RGB
RGB_24Bit
FLI2300
HY57V64322
SDRAM (8MB)
DTV2_Comp
DTV_Comp
M37136
(OTP)
CAB_Comb
Analog BOARD
Comp1
(DVD/DTV)
Comp
DVD_MAIN
M52758FP
IC400(MUX)
S/DVD_Comp
Comp2
(DVD/DTV)
Comp2
DVD2_MAIN
ALT_Y_480I_MAIN
ALT_Y2_480I_MAIN
MAIN_YOUT
VPC3230
(MAIN)
M656 8Bit
CVBS IN
VIN1
CVBS OUT
MNT_OUT
CAB_VIN
COMB_YOUT
COMB_COUT
MAIN_COUT
UPD64083
S-VHS
Y/CIN1
CXA2069Q
RF
Tuner (M)
Tuner (S)
MAIN_VOUT
MAIN_YOUT
LA7151M
SW CVBS/Y
ALT_Y_480I_SUB
ALT_Y2_480I_SUB
DVD_SUB
DVD2_SUB
VPC3230
(SUB)
S656 8Bit
Side A/V
Side-CVBS
VIN2
Side
S-VHS
Y/CIN2
SUB_YOUT
SUB_COUT
M62320FP
(I2C Expender)

MEMO

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	6401VD0013F	SPEAKER ASSEM, BLYFULL RANGE(L) RZ-42PX10 SKD
121	6401VD0013E	SPEAKER ASSEMBLY, FULL RANGE(R) RZ-42PX10 SKD
200	6348Q-E053W	PDP, 42” 16:9 852*480 PDP42V60000.ADLGA
201	6871QCH034A	PWB(PCB) ASSEMBLY, DISPLAY CTRL ASSY HAND INSERT 42V6 NEW MCM(1222) LVDS
202	6871QDH066A	PWB(PCB) ASSEMBLY, DISPLAY YDRV ASSY HAND INSERT 42V6 YDRV TOP HAND INSERT ASSY
203	6871QDH067A	PWB(PCB) ASSEMBLY, DISPLAY YDRV ASSY HAND INSERT 42V6 YDRV BTM HAND INSERT ASSY
204	6871QLH034A	PWB(PCB) ASSEMBLY, DISPLAY XRLT ASSY HAND INSERT 42V6_XL(4LAYER)
205	6871QRH037A	PWB(PCB) ASSEMBLY, DISPLAY XRRT ASSY HAND INSERT 42V6_XR(4LAYER)
206	6871QYH029A	PWB(PCB) ASSEMBLY, DISPLAY YSUS ASSY HAND INSERT 42V6
207	6871QZH033A	PWB(PCB) ASSEMBLY, DISPLAY ZSUS ASSY HAND INSERT 42V6
300	3091V00684D	CABINET ASSEMBLY, RZ-42PX10, Silver
	3091V00684L	CABINET ASSEMBLY, RT-42PX11, 2 Tone Black
301	4980V01067B	SUPPORTER, ASSY AL FILTER TOP RZ-42PX10 SKD
302	4980V01068B	SUPPORTER, ASSY AL FILTER BOT.RZ-42PX10 SKD
303	4980V01069B	SUPPORTER, ASSY AL FILTER RIGHT RZ-42PX10 SKD
304	4980V01070B	SUPPORTER, ASSY AL FILTER LEFT RZ-42PX10 SKD
305	3790V00281F	FILTER(MECH), GLASS FILTER MN42PZ44 1142G03EK 42KK NBK ETCHING MESH
400	3809V00444B	BACK COVER ASSEMBLY, RZ-42PX10 SKD
401	3301V00025F	PLATE ASSEMBLY, ASSY VSC TUNER COVER RZ-42PX10 SKD
402	3301V00023G	PLATE ASSEMBLY, ASSY AV VSC TUNER RZ-42PX10 SKD
410	4980V01071B	SUPPORTER, ASSY AL VERTICAL RZ-42PX10 SKD
490	4980V01057B	SUPPORTER, PCB EGI POWER SW RZ-42PX10 SKD
520	6871VMMS15A	PWB(PCB) ASSEMBLY,MAIN RF043B MALIBU RZ MAIN DIGITAL MANUAL
530	6871VSME92A	PWB(PCB) ASSEMBLY,SUB PSW RF043A MAILBU
531	5020V00915B	BUTTON, POWER RZ-42PX10 ABS, AF-303S SKD
560	6871VSMS03A	PWB(PCB) ASSEMBLY,SUB TUNER RF043B MALIBU RZ SUB ANALOG MANUAL
570	6871VSMZ91A	PWB(PCB) ASSEMBLY,SUB CONT RF043A NEW HOLDER LOCAL KEY KODENSI
580	3501V00180A	BOARD ASSEMBLY, POWER RZ-42PX10 RF043A 1H201W1 SANKEN PSU
600	6871VSME91A	PWB(PCB) ASSEMBLY,SUB A/V RF043A MALIBU SIDE AV
601	4811V00118C	BRACKET ASSEMBLY, SIDE AV RZ-42PX10 SKD

REPLACEMENT PARTS LIST

IC

LOCA. NO	PART NO	DESCRIPTION
IC100	0IMMRAL014B	AT24C02N-10 SI-2.7 R/TP 2K(256X8) 2-WIRE
IC100	0IMI623200B	M62320FP,I/O EXPANDER 16P SOP TP I/O
IC1000	0IMCRFA010A	KA7809R, FAIRCHILD 2P D-PAK
IC1001	0IPRPML001A	MIC39100 SOT223 R/TP LDO TYPE 2.5V
IC1002	0IMCRSH001A	PQ05DZ1U SMD TYPE R/TP REGULATOR
IC1003	0ITK118100B	TK11840L 8P SOT23L CONVERTER PWM IC
IC1004	0IMCRSH001A	PQ05DZ1U SHARP 5, SMD REGULATOR
IC101	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P 2K(256X8) 2-WIRE
IC102	0IMCRTI003A	SN74HCT08D INSTRUMENT 16P QUADRUPLE
IC103	0IMCRTI021A	SN74LVTH541PWR 20P DRIVERS WTH 3 STATE OUTPUT
IC104	0IMCRTI021A	SN74LVTH541PWR DRIVERS WTH 3 STATE OUTPUT
IC1100	0IMCRTH002A	THC63LVD103 TQFP TRAY 10BIT LVDS TX
IC1200	0IMCRSJ001A	SC1565IST-1.8 SOT223 TP REGULATOR
IC1201	0IPRPML001A	MIC391003P SOT223 LDO TYPE 2.5V REGULATOR
IC1202	0IMCRFA010A	KA7809R, FAIRCHILD 2P REGULATOR IC
IC1300	0IMCRRH001A	BA033FP-E2 TO252-3 R/TP 3.3V REGULATOR
IC1301	0IMCRSH001A	PQ05DZ1U SMD TYPE R/TP REGULATOR
IC1302	0IMCRSH001A	PQ05DZ1U SMD TYPE R/TP REGULATOR
IC1303	0IMCRRH001A	BA033FP-E2 TO252-3 R/TP 3.3V REGULATOR
IC1304	0IMCRSJ001A	SC1565IST-1.8 SOT223 TP REGULATOR
IC1305	0IMCRRH001A	BA033FP-E2 TO252-3 R/TP 3.3V REGULATOR
IC1306	0IPRPML001A	MIC39100 SOT223 R/TP LDO TYPE 2.5V REGULATOR
IC200	0IFA742530B	74ACT253SC 16P SOIC DUAL 4-INPUT MULTIPLEXER
IC201	0IMCRSG010A	ST3232CDR SOP16 R/TP RS232 DRIVER/RECEIVER
IC202	0IMCRMI006A	M52758FP MITSUBISHI 36PIN, R/TP PLL IC
IC203	0IFA741230A	DM74LS123MX 16SOP MONO. MULTIVIBRATOR
IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV S/W
IC401	0ISO210100B	CXA2101AQ 80P,VIDEO SIGNAL PROCESSOR
IC402	0IMCRTI003A	SN74HCT08D NSTRUMENT 16P QUADRUPLE
IC500	0ICTMLG018A	LGDT4410 LG IC 176P QFP TRAY IEP
IC500	0IMCRMN023A	SDA6001 QH B12 128P MQFP TRAY MICOM
IC501	0IMMRHY001F	HY57V641620HGT-HT TRAY 64M SDRAM 133MHZ
IC502	0IMMRMR006B	MX29LV160ATTC-70 48P TSOP 16M FLASH MEMORY
IC503	0IMCRAL006A	AT24C16AN-10SI-2.7 SOIC R/TP EEPROM
IC504	0IKE702700D	KIA7027AF 3, SOT-89 TP RESET IC 2.7V
IC600	0IIT323000E	VPC3230D C5 80P TRAY VIDEO PROCESSOR PDP50
IC600	0IMCRGN002C	FLI2300BD 208P TRAY DIGITAL VIDEO CONVERTER
IC601	0IMMRHY033A	HY57V643220C(L)T-6 TRAY 64M FLASH MEMORY
IC700	0IIT323000E	VPC3230D C5 80P TRAY VIDEO PROCESSOR PDP50
IC700	0IPRPGN012A	GM1501HBD PBGA TRAY LCD/PDP CONTROLLER
IC701	0IMMRAL025A	AT24C32AN-10SI-2.7 8PIN SOP TP 32K 3.3V
IC702	0IKE704200J	KIA7042AF SOT-89 TP 4.2V DETECTOR
IC800	0IMMRHY020B	HY5DU283222AQ-5 100P LQFP TRAY 4MX32
IC800	0IMCRMN028A	MSP4410G-QA-C13-101WITH SRS WOW AND BBE
IC801	0IMMRMR023A	MX29LV800TTC-70 TSOP TRAY 8MBIT, 3.3V
IC801	0IMCRNL001A	NSP-6241B TRAY DIGITAL AUDIO PROCESSOR
IC802	0IMCRTI028C	TAS5122DCAR 56P/TSSOP 30W STEREO DIGITAL
IC802	6620VF3201A	SOCKET(CIRC),IC 822473-32.54MM PLCC
IC805	0IKE704200J	KIA7042AF SOT-89 TP 4.2V DETECTOR

TRANSISTOR

LOCA. NO	PART NO	DESCRIPTION
Q001	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q002	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1000	0TRKE80038A	KTC3552T-RTK R/TP SOT-23F 50V 3A
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q103	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q106	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q107	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q108	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q109	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q110	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W
Q111	0TR830009BA	BSS83 TP PHILIPS NON N-CHANNEL S/W
Q1200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q209	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q210	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q211	0TR104009AF	CHIP KRC104S SOT-23
Q214	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q300	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q302	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q303	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q304	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q305	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q306	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q307	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q308	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q309	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q310	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q311	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q312	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q313	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q314	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q315	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q316	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q400	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q401	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q401	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q402	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q404	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q405	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q406	0TR387500AA	CHIP 2SC3875S(ALY) KEC

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
Q800	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q801	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q802	0TR387500AA	CHIP 2SC3875S(ALY) KEC
DIODE		
D100	0DD226239AA	CHIP KDS226 SOT-23
D100	0DD226239AA	CHIP KDS226 SOT-23
D1000	0DD226239AA	CHIP KDS226 SOT-23
D1001	0DD184009AA	KDS184S CHIP 85V 300MA
D1002	0DD226239AA	CHIP KDS226 SOT-23
D1003	0DD226239AA	CHIP KDS226 SOT-23
D1004	0DD226239AA	CHIP KDS226 SOT-23
D101	0DD226239AA	CHIP KDS226 SOT-23
D101	0DD226239AA	CHIP KDS226 SOT-23
D102	0DD226239AA	CHIP KDS226 SOT-23
D103	0DD226239AA	CHIP KDS226 SOT-23
D104	0DD226239AA	CHIP KDS226 SOT-23
D105	0DD184009AA	KDS184S CHIP 85V 300MA
D116	0DD226239AA	CHIP KDS226 SOT-23
D117	0DD226239AA	CHIP KDS226 SOT-23
D118	0DD226239AA	CHIP KDS226 SOT-23
D119	0DD226239AA	CHIP KDS226 SOT-23
D120	0DD226239AA	CHIP KDS226 SOT-23
D1200	0DD226239AA	CHIP KDS226 SOT-23
D1201	0DD226239AA	CHIP KDS226 SOT-23
D1206	0DD226239AA	CHIP KDS226 SOT-23
D121	0DD226239AA	CHIP KDS226 SOT-23
D122	0DD226239AA	CHIP KDS226 SOT-23
D123	0DD226239AA	CHIP KDS226 SOT-23
D124	0DD226239AA	CHIP KDS226 SOT-23
D125	0DD226239AA	CHIP KDS226 SOT-23
D126	0DD226239AA	CHIP KDS226 SOT-23
D127	0DD226239AA	CHIP KDS226 SOT-23
D128	0DD226239AA	CHIP KDS226 SOT-23
D129	0DD226239AA	CHIP KDS226 SOT-23
D130	0DD226239AA	CHIP KDS226 SOT-23
D1300	0DD226239AA	CHIP KDS226 SOT-23
D1301	0DD226239AA	CHIP KDS226 SOT-23
D1302	0DD226239AA	CHIP KDS226 SOT-23
D1303	0DD226239AA	CHIP KDS226 SOT-23
D1304	0DD226239AA	CHIP KDS226 SOT-23
D1305	0DD226239AA	CHIP KDS226 SOT-23
D1306	0DD226239AA	CHIP KDS226 SOT-23
D131	0DD226239AA	CHIP KDS226 SOT-23
D200	0DD226239AA	CHIP KDS226 SOT-23
D201	0DD226239AA	CHIP KDS226 SOT-23
D202	0DD226239AA	CHIP KDS226 SOT-23
D203	0DD226239AA	CHIP KDS226 SOT-23
D204	0DD226239AA	CHIP KDS226 SOT-23
D205	0DD226239AA	CHIP KDS226 SOT-23
D500	0DD226239AA	CHIP KDS226 SOT-23
D501	0DD226239AA	CHIP KDS226 SOT-23

LOCA. NO	PART NO	DESCRIPTION
D502	0DD226239AA	CHIP KDS226 SOT-23
D503	0DD226239AA	CHIP KDS226 SOT-23
ZD100	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD101	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD206	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD207	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD208	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323 5V 5A 15A
ZD800	0DZ820009AH	MTZJ8.2B TP ROHM-K DO34 - 8.2V 5UA
LD001	0DL200000CA	LEDSAM5670(DL-2LRG) BK Y-GREEN
LD1000	0DL233309AC	LEDSAM2333 TP GREEN:10MCD, RED:6MCD
LD1001	0DL233309AC	LEDSAM2333 TP GREEN:10MCD, RED:6MCD
LD1002	0DL233309AC	LEDSAM2333 TP GREEN:10MCD, RED:6MCD
LD1003	0DL233309AC	LEDSAM2333 TP GREEN:10MCD, RED:6MCD
LD1203	0DL233309AC	LEDSAM2333 TP GREEN:10MCD, RED:6MCD
LD1204	0DL233309AC	LEDSAM2333 TPGREEN:10MCD, RED:6MCD
LD1206	0DL233309AC	LEDSAM2333 TPGREEN:10MCD, RED:6MCD
LD1207	0DL233309AC	LEDSAM2333 TPGREEN:10MCD, RED:6MCD
CAPACITOR		
C002	0CE4763F618	47UF SRE 16V M FL TP5
C1001	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1002	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1003	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1004	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1006	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1016	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1017	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1018	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C102	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1020	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1022	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1025	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1027	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1031	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1037	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C104	0CE476DF618	47UF STD 16V M FL TP5
C1041	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1042	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1045	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1046	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C105	0CE476DF618	47UF STD 16V M FL TP5
C1052	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1058	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1059	0CE477DJ618	470UF STD 35V 20% FL TP 5
C106	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1060	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1061	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1063	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1066	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1066	0CE107SF6DC	100UF MVG 16V M SMD R/TP

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LOCA. NO	PART NO	DESCRIPTION
C1067	0CE477DJ618	470UF STD 35V 20% FL TP 5
C107	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1072	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1074	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1078	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1079	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C108	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1081	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C110	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C111	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C112	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C113	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C114	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C120	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1202	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1205	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1206	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C121	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C121	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1211	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1212	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1215	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1216	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1218	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1220	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1229	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1233	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C124	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1249	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1250	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1251	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1254	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1256	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1257	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1259	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C127	0CE475SK6DC	4.7UF MVG 50V 20% SMD R/TP
C1273	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1274	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1275	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1279	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1305	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1314	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1315	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1317	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1331	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1333	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1353	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1355	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1362	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C1366	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1368	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C1373	0CE107SF6DC	100UF MVG 16V M SMD R/TP

LOCA. NO	PART NO	DESCRIPTION
C1374	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1384	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1388	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1391	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1400	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1402	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C1404	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1410	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1415	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C1425	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C208	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C220	0CE477SF6DC	470UF MVG 16V 20% R/TP SMD
C222	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C222	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C223	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C223	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C224	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C224	0CE476XFKDC	47UF MVK-BP,CN 16V 20%,-20% SMD TAPPING
C224	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C225	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C226	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C227	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C230	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C251	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C254	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C258	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C261	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C263	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C272	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C274	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C301	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C302	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C304	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C316	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C317	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C318	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C323	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C325	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C327	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C400	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C401	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C402	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C404	0CE227VF6DC	220UF MV 16V 20% R/TP SMD
C406	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C410	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C423	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C429	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C435	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C440	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C442	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C502	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C505	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD

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RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C506	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C507	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C508	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C509	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C517	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C520	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C522	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C523	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C525	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C527	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C529	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C534	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C604	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C612	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C615	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C627	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C629	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C632	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C702	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C703	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C709	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C712	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C720	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C723	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C726	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C737	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C744	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C752	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C757	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C762	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C769	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C777	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C778	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C785	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C800	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C801	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C802	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C803	0CE226VF6DC	22UF MV 16V 20% R/TP SMD
C812	0CE226VF6DC	22UF MV 16V 20% R/TP SMD
C817	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C822	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C825	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C827	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C828	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C829	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C834	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C834	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C837	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C840	0CE106SF6DC	10UF MVG 16V 20% R/TP SMD
C841	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C847	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C851	0CE108DH618	1000UF STD 25V M FL TP5
C852	0CE108DH618	1000UF STD 25V M FL TP5
C862	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C863	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C872	0CE335SK6DC	3.3UF MVG 50V 20% SMD R/TP
C873	0CN105EJ56A	1.0UF 3216 35V 10% R/TP X7R
C874	0CE108DH618	1000UF STD 25V M FL TP5

COIL

LOCA. NO	PART NO	DESCRIPTION
L1004	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1005	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1006	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1007	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1200	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1203	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1209	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L1213	6140VB0004B	COIL,CHOKE26UH 22.5TURN YL-9N 0.4
L803	6140VB0022A	COIL,CHOKECPS-0810 GET 22UH 21.5TURNS
L804	6140VB0022A	COIL,CHOKECPS-0810 GET 22UH 21.5TURNS
L805	6140VB0022A	COIL,CHOKECPS-0810 GET 22UH 21.5TURNS
L806	6140VB0022A	COIL,CHOKECPS-0810 GET 22UH 21.5TURNS

RESISTOR

AR1101	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1102	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1103	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1104	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1105	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR1106	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR500	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR503	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR507	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR508	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR509	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR512	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR513	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR520	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR521	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR522	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR523	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR524	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR525	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR600	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR601	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR602	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR603	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR604	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR605	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR606	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24

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RN : Metal Film
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LOCA. NO	PART NO	DESCRIPTION
AR607	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR608	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR609	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR610	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR611	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR612	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR613	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR614	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR615	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR616	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR617	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR618	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR700	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR701	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR702	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR703	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR707	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR708	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR709	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR710	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR711	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR712	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR713	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR714	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR715	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR717	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR718	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
AR719	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24
R801	0RKZVTA001L	1.0M OHM 1/2 W 5% TA52 UL PILKOR
R802	0RKZVTA001L	1.0M OHM 1/2 W 5% TA52 UL PILKOR
SWITCH		
SW001	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW002	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW003	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW004	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW005	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW006	140-315A	TACT, SKHV17910B LG C&D NON 12V
SW700	140-313B	TACT, 2LEAD 160G(TA) LG C&D NON
SW800	6600VM2006A	PUSH, SDDF3PATP011 250V 4A HORIZONTAL
SW800	140-275A	PUSH, JDPB21SA 30V 0.3A HORIZONTAL 500G
FILTER & CRYSTAL		
L100	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L100	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1000	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1001	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1002	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1008	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1009	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L101	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM

LOCA. NO	PART NO	DESCRIPTION
L101	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1010	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1011	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1012	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1013	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1014	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1015	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1016	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1017	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1018	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1019	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L102	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L102	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L103	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L103	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L104	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L105	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L105	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L106	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L107	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L108	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L1206	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1207	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1210	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1211	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1216	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1217	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1300	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1302	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1307	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1310	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1311	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1312	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1313	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1314	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1315	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1316	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1317	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1318	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1321	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1322	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1325	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1326	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1327	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1328	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1329	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1330	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1331	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1332	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L1333	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L200	6200JB8013L	BEAD FEELUX 60 OHM TB201209U060
L200	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM

LOCA. NO	PART NO	DESCRIPTION
L201	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L202	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L203	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L204	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L205	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L206	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L208	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L210	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L211	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L212	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L213	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L213	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L214	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L215	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L216	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L216	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L300	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L301	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L302	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L305	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L306	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L307	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L308	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L309	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L310	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L311	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L312	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L313	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L314	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L400	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L400	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L401	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L401	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L402	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L403	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L404	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L405	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L406	6210VC0005A	BK2125 HS 7502X1.25X0.85MM
L407	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L500	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L501	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L502	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L503	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L504	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L505	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L506	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L507	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L700	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L800	6210VC0006A	FBMH3216 HM501NT3.2X1.6X1.6MM
L807	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
L808	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
R102	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA

LOCA. NO	PART NO	DESCRIPTION
R103	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
R106	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
R107	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
R108	6200JB8010L	MLB-201209-1000L-N2 1000OHM 350MA
X500	6202VDT002K	CRYSTAL, SX-1 6MHZ 16PF TP .
X600	6202VDT002J	CRYSTAL, SX-1 13.500000MHZ 14PF
X600	6202VDB007B	CRYSTAL, HC49U 250MHZ 30PPM 13PF
X700	6202VDT002B	CRYSTAL, SX-1 SC14.3MHZ +/- 30 PPM 16PF
X700	6202VDB007B	CRYSTAL, HC49U 20.250MHZ 30PPM 13PF
X800	156-A02M	CRYSTAL, HC49U 432MHZ 30PPM 10PF BK
JACK		
JK103	6613V00026A	ASSEMBLY, UJB-03-28A UGCOM
JK200	6612M00009A	SCART, UJB-R1-033 UGCOM 21P
JK201	6612M00009A	SCART, UJB-R1-033 UGCOM 21P
JK202	6612M00009A	SCART, UJB-R1-033 UGCOM 21P
JK300	6612J00057A	RCA, UJB-08-01A UGCOM 8P RCA+1P S-JACK
P101	380-068E	PHONE, UEJ-CV-018 UGCOM D3.5 E/P
P102	6612BBBHN6A	DIN, 440062-1 AMP DVI CED RIGHT ANGLE
P201	380-068E	PHONE, UEJ-CV-018 UGCOM D3.5 E/P
ACCESSORIES		
A1	3828VA0468F	MANUAL,OWNERS RF043B PX10/2 LG
A2	6710V00126R	REMOTE CONTROLLER, PIP RZ-42PY20 40
A3	6410VEH003C	POWER CORD, M2511A-001 2800MM
A4	6850J00003A	CABLE, DVIDVI-D TO DVI-D
A5	6850J00004A	CABLE, DVILVDS UL20276 AWG30 500MM
A6	6850VA0004E	CABLE, COAXIAL COAXIAL CALBE(PAL)
A7	6851V00022C	CABLE, COAXIAL COAXIAL(150MM)
A8	6866VA9001B	CONNECTOR (CIRC), D-SUB 2990-9C
MISCELLANEOUS		
F801	0FS1002B53K	FUSE, SLOW BLOW10000MA 250 V 5.2X20
F801A	430-813A	HOLDER, FUSE NON MC994C PAPING
F802A	430-813A	HOLDER, FUSE NON MC994C PAPING
P100	6630VGA001C	CONNECTOR (CIRC), D-SUB 68114-1521
P200	6630VGA004B	CONNECTOR (CIRC), D-SUB 69107-0921
PA001	6712000002A	REMOTE CONTROLLER RECEIVER
TU100	6700MF0010A	TUNER, TAUM-W501P 4SYSTEM MAIN
TU101	6700MF0010B	TUNER, TAFM-W502P 4SYSTEM SUB

#1 2 TUNER

STU_SW1
BOOST
MTU_SW1
AGC_FB
TU_SUB
SIF
5V_TU
TU_MAIN
TV_VOUT
AM_AUDIO
IC100
M62320FP
SCL_A
SDA_A
MTU_SW1
STU_SW1
BOOST
H: SECAM
L: else
MSTR_SCL
MSTR_SDA
SCL_A
SDA_A
TU101
TUNER(SUB)
TU100
TUNER(MAIN)

#2 SCART 1/2/3

JK200
SCARTJACK
JK201
SCARTJACK
JK202
SCARTJACK
SCART1_VIN
TV_VOUT
SCART1_FB
SCART1_R
SCART1_G
SCART1_B
SCART1_CIN
SCART1_RIN
TV_LOUT
TV_ROUT
SCART2_VIN
MNT_VOUT
SCART2_G
SCART2_B
SCART2_CIN
SCART2_LIN
SCART2_RIN
MNT_LOUT
MNT_ROUT
SCART3_VIN
SCART3_LIN
SCART3_RIN

#3 YPbPr/Video
SCART Buffer

JK300
YPbPr_S_VIDEO_LR
* S/W pin number macro modifiy

#4 AV SWITCHING

IC400
CXA2069Q
SCART3 Input
Video 3
Back Input
Video 4
Front Input
Video 5
Front AV Input +1
SCART2 Input
Video 2
SCART1 Input
Video 1
2 TUNER Input
MNT OUT
SCART 2
SUB OUT
CVBS/S
MAIN OUT
CVBS/TXT
MAIN OUT
S-VHS
GP_SCL
GP_SDA
MSTR_SCL
MSTR_SDA
MNT_LOUT
MNT_ROUT
MNT_VOUT
SUB_V/VOUT
SUB_COUT
AV_LOUT
AV_ROUT
MAIN_VOUT
TXT_VIN
MAIN_VOUT
MAIN_COUT
CIN4
RIN4
YIN4
LIN4
VIN4
SS_SW
CIN5
RIN5
YIN5
LIN5
VIN5
SCART2_ID
SCART2_RIN
SCART2_LIN
SCART2_VIN
SCART1_ID
SCART1_RIN
SCART1_LIN
SCART1_VIN
TV_LOUT
TV_ROUT
TU_MAIN
TU_SUB

#5 u-COM(SDA6001)
TEXT IC

IC500
SDA6001

IC501
SDRAM
HY57V641620HG

IC502
FLASH ROM

#6 VIDEO DECODER(MAIN)

IC600
C5 VER.
VPC3230D (MAIN)
[ADDR:8E]

#7 VIDEO DECODER(SUB)

IC700
C5 VER.
VPC3230D (SUB)
[ADDR:8C]

#8 Digital Audio

IC800
MSP4410G C13

IC801
MSP6241A

#9 CONNECTOR

P101A
31PIN

P102A
31PIN

P103A
31PIN

P104A
12PIN

P105A

#1 INPUT

P100
D-SUB15

P101
PHONE

P102
DVI-I

P103B
31PIN

P101B
31PIN

P102B
31PIN

RZ : SCART + TEXT
RU : RCA + CAPTION
RT : RCA + TEXT

#10 POWER

#2 RGB/YPbPr_SWITCH

BOM Option in RZ

IC202
M52758

IC203
74LS123

IC204
74LS123RZ

IC201
DS232A

IC200
74ACT245SC

P200
RS-232C

P201
IR_JACK

#3 S2300

IC600
S2300 S2300
BD VERSION
Address : D0

#4 CXA2101AQ

IC401
CXA2101AQ

#5 SCALER(gm1601)

#6 DDR RAM/F_ROM

IC800
HY5DU283222A
SDRAM 128MB

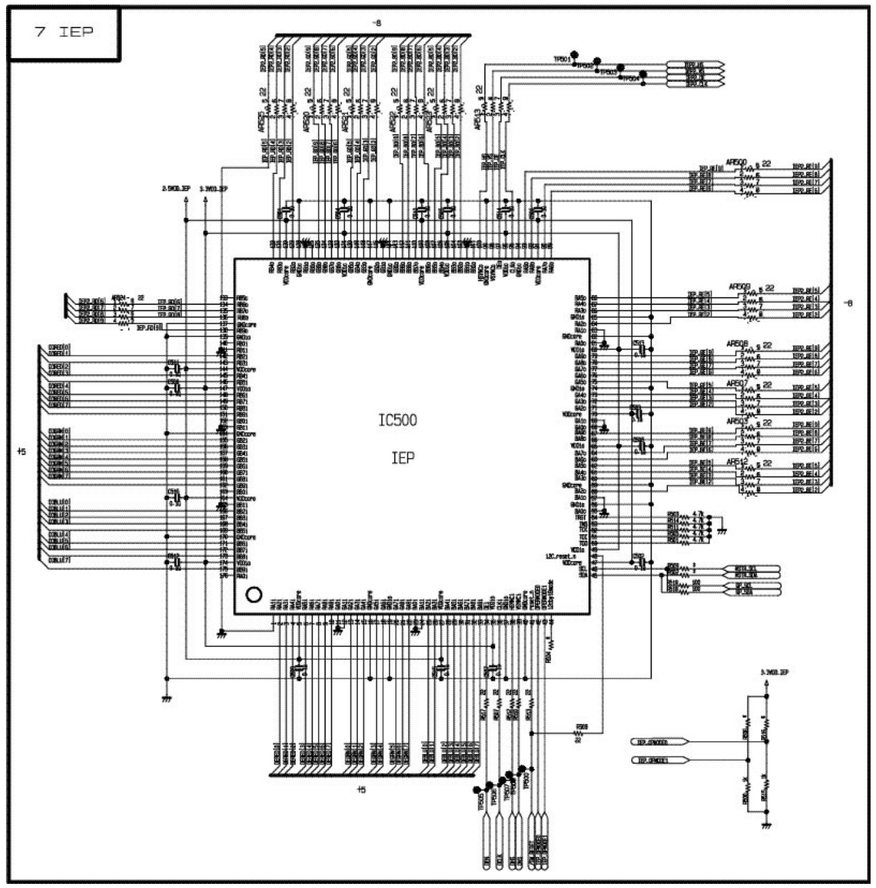
IC801
AM29LV160(1MByte)

IC802
FLASH 512K

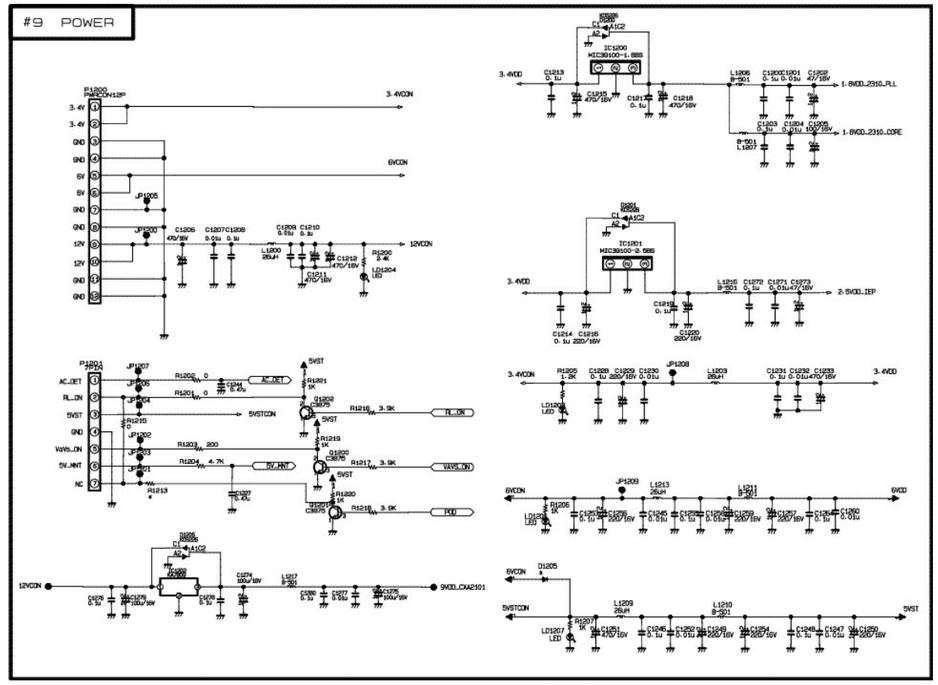
IC701
24LC256

for text

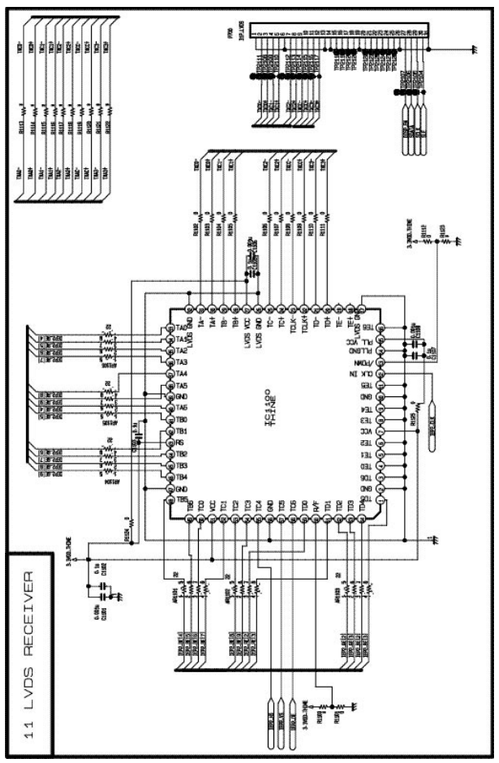
7 IEP



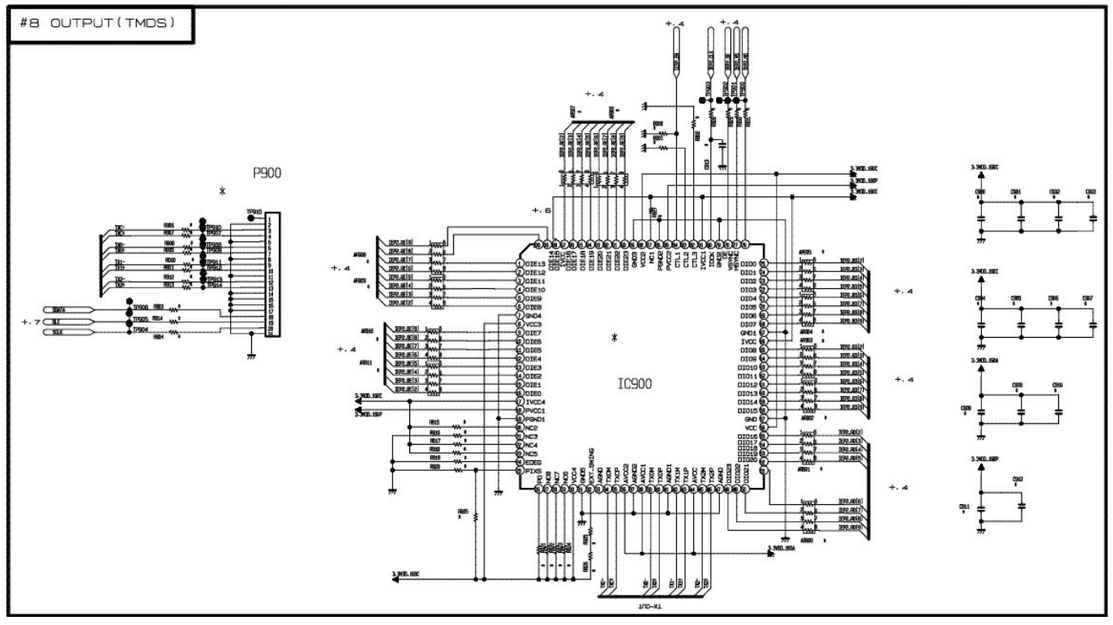
#9 POWER



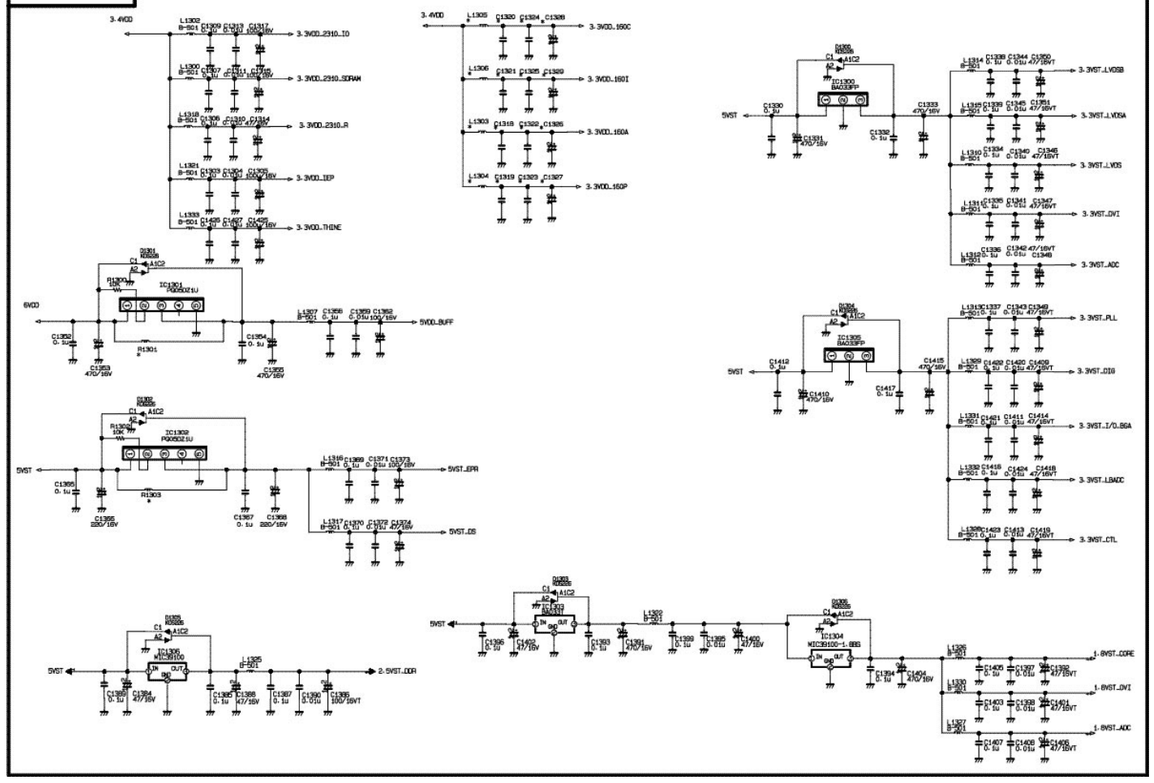
11 LVDS RECEIVER



#8 OUTPUT(TMDS)

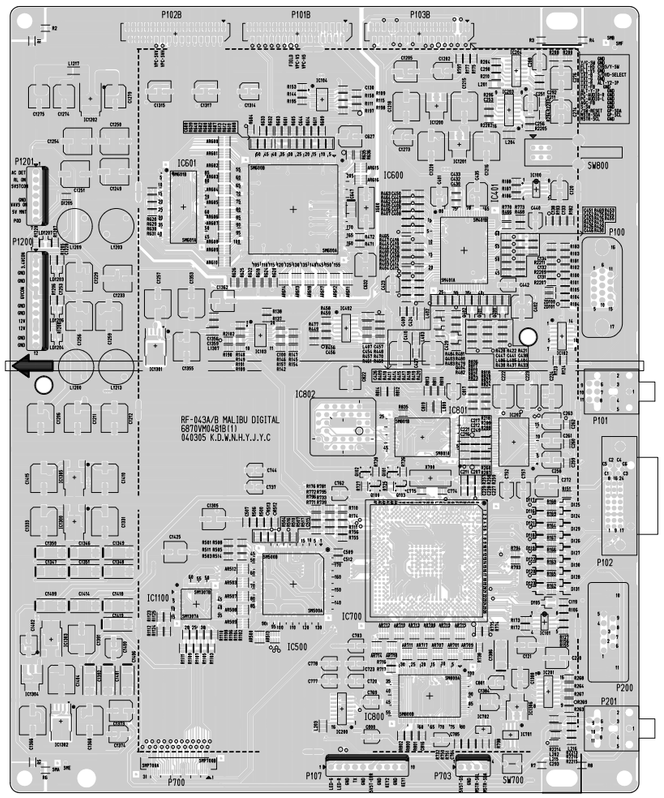


#10 POWER

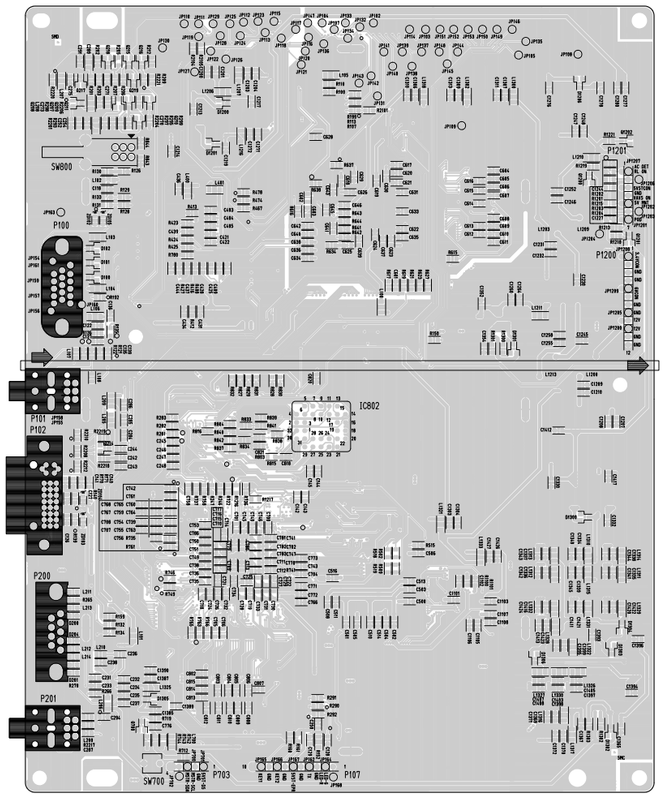


PRINTED CIRCUIT BOARD

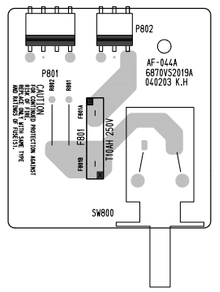
MAIN (TOP)



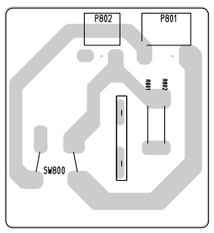
MAIN (BOTTOM)



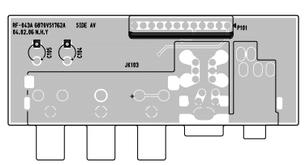
POWER S/W(TOP)



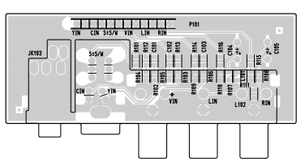
POWER S/W(BOTTOM)



SIDE A/V(TOP)



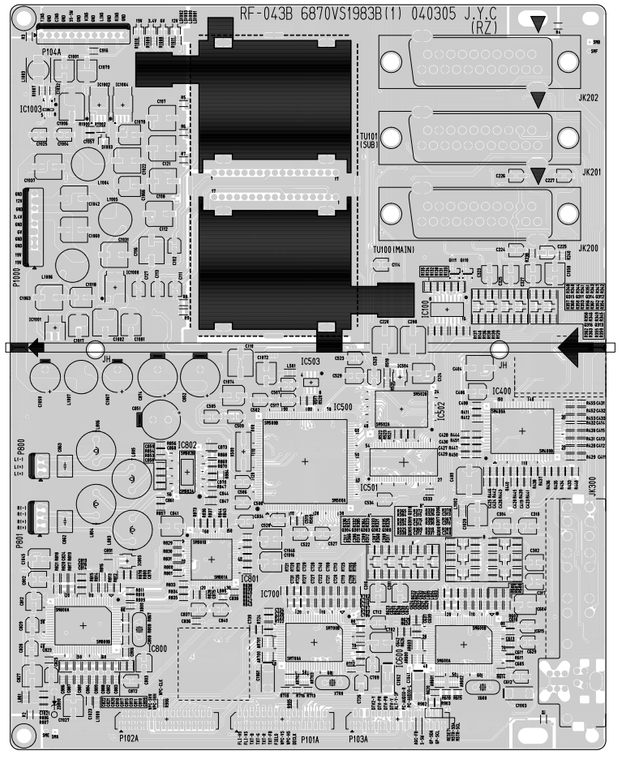
SIDE A/V(BOTTOM)



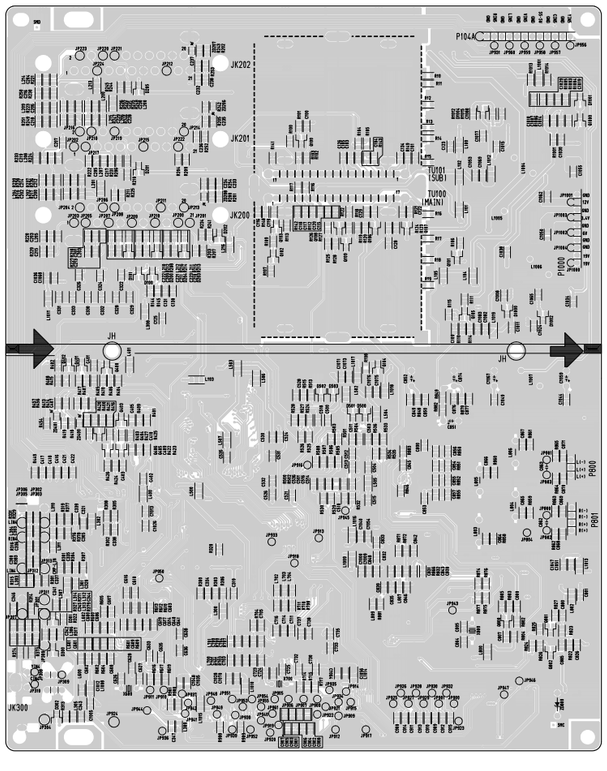
CONTROL(TOP)

CONTROL(BOTTOM)

TUNER(TOP)



TUNER(BOTTOM)



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